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An empirical analysis based on panel data from Japan's *Census of Manufactures*

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Abstract

Using a Melitz-style model of heterogeneous firms, Baldwin and Okubo (2006) recently presented a theoretical model in which self-sorting occurs and more productive factories choose to locate in more productive areas. The model suggests that firm-specific factors and regional factors affect each other through the endogeneity of location decisions. However, to date there have been few studies empirically testing this issue. Against this background, our aim is to examine the relationship between firms and location-specific factors in location decisions using factory-level panel data from Japan's *Census of Manufactures*. We begin by estimating how much of the differences in factories' TFP levels can be explained by both firm and location effects. The estimation results show that both effects have a significant impact on the productivity level of a factory, and that the firm effects are more important than the location effects. We also find a statistically significant negative correlation between firm effects and location effects, and investigate what causes this relationship. One potential explanation is that more productive firms may tend to set up new factories in less productive locations such as rural areas, where factor prices such as land prices and wage rates are usually low, in order to benefit from low factor prices. To examine this issue, we estimate a mixed logit model of location choice. The results indicate that more productive firms indeed tend to set up new factories in low-productivity locations, which is consistent with our hypothesis.

Keywords: TFP, firm effects, location effects, and self-sorting.

JEL classification: R30; D24; O53

1. Introduction

The literature on productivity shows that there are large differences in the productivity of factories even in a narrowly defined, highly homogeneous industry (see Bartelsman and Doms, 2000). Many researchers on productivity have looked for firm- or factory-specific factors which may be responsible for such productivity differences, such as human capital, capital vintage, and the characteristics of the firm (in terms of R&D, IT, FDI, exports, etc.) to which the factory belongs. On the other hand, many researchers on regional economics have looked for regional factors which may explain the differences in productivity among different areas, such as agglomeration effects due to local industry-specific knowledge spillovers and natural cost advantages (e.g., Ciccone and Hall, 1996, and Henderson, 2003). Both groups of researchers, however, usually fail to incorporate the perspective of the other group. The former does not take into account location factors, while the latter usually does not fully take account of the characteristics of the firm to which a factory belongs.

Using a Melitz-style model of heterogeneous firms, Baldwin and Okubo (2006) recently presented a theoretical model in which self-sorting occurs and more productive factories choose to locate in more productive areas. Their result suggests that firm-specific factors and regional factors affect each other through the endogeneity of location decisions.

Despite the importance of this issue, there are few empirical studies on this topic, probably because of a lack of appropriate data.[1] Against this background, our aim is to examine this issue using factory-level panel data of Japan's *Census of Manufactures*.[2]

First, we decompose factories' TFP levels into firm effects, location effects, and factory-specific characteristics, such as size and age. Next, we investigate the characteristics of our estimated firm effects and location effects by calculating the coefficients of correlation between these effects and several firm- and location-specific characteristics. Based on the estimated firm and location effects, we examine how much of the total variation in TFP levels across factories can be explained by firm effects and by location effects and test whether more productive firms tend to have factories in more productive locations. We also estimate location choice models and test whether more productive firms tend to open up new factories in more productive locations.

The structure of the paper is as follows. The next section introduces our methodology for estimating firm and location effects on TFP, explains data sources and the construction of variables, and presents our estimation results of firm and location effects. In Section 3, we examine the characteristics of the estimated firm and location effects by calculating the coefficients of correlation

[1] Using start-up data of foreign-owned factories in the United States, Shaver and Flyer (2000) have shown that productive foreign-owned firms tend to locate their activities in less productive regions. Shaver and Flyer suggest that the reason is that they receive fewer net benefits from agglomeration and technology spillovers from other firms.

[2] We were able to gain access to the micro data of the *Census of Manufactures* and the *Basic Survey of Japanese Business Structure and Activities* as part of our research project on the "Firm and Industry Level Analysis of Productivity" at the Research Institute of Economy, Trade and Industry (RIETI).

between these effects and various firm and location characteristics. In addition, we conduct an analysis of variance in order to examine the relative importance of the two effects. In Section 4, we then test whether firm and location effects are positively correlated. We also estimate models of firms' location choices. Section 5 summarizes our results and discusses remaining issues to be investigated in future research.

2. Estimation of Firm and Location Effects on Factories' TFP

We begin our examination of the role of location and firm effects on factory-level TFP by presenting our methodology for measuring TFP and isolating the two effects from other, factory-specific effects. This is followed by an explanation of our data sources and the variables used. Finally, this section presents our estimation results of firm and location effects.

Let us start with our methodology for estimating how much of the differences in factories' TFP levels can be explained by firm effects and how much by location effects. The TFP level in year *t* of factory *i*, which belongs to firm *f* and is located in location *l*, is assumed to be determined by the following factors: factory age and size, firm effects (measured by a dummy for the firm to which the factory belongs), location effects (measured by a location dummy at the city/ward/town/village level), industry specific effects (measured by a dummy for the industry to which the factory belongs), and year effects:

$$TFP_{i,t} = G\left(Age_{i,t}, Scale_{i,t}, f_{i,t}, l_{i,t}, t\right) \tag{1}$$

Specifically, we estimate the following econometric model:

$$\begin{aligned}\ln TFP_{i,t} &= \beta_{a1,t} Age_{i,t} + \beta_{s1,t} Scale_{i,t} \\ &+ \sum_{l'} \beta_{l',t} DL_{l'}\left(l_{i,t}\right) + \sum_{f'} \beta_{f',t} DF_{f'}\left(f_{i,t}\right) + \sum_{j'} \beta_{j',t} DI_{j'}\left(j_{i,t}\right) + \sum_{t'} \beta_{t'} DY_{t'}\left(t\right) + R_{i,t}\end{aligned} \tag{2}$$

where $Age_{i,t}$ is the age of factory *i* in year *t*, $Scale_{i,t}$ is the number of employees of this factory in year *t*, $l_{i,t}$ is the location of factory *i*, and $f_{i,t}$ denotes the firm to which factory *i* belongs in year *t*. $DL_{l'}$ is a dummy variable for location *l'* which takes value one if the location of factory *i*, l_i, is equal to *l'*, otherwise this dummy variable takes value zero. Similarly, $DF_{f'}$ is a dummy variable for firm *f'* which takes value one if the firm to which factory *i* belongs, $f_{i,t}$, is equal to *f'*, otherwise this dummy variable takes value zero, $DI_{j'}$ is a dummy variable for industry *j'* which takes value one if the industry to which factory *i* belongs, $j_{i,t}$ is equal to *j'*, otherwise this dummy variable takes value

zero,[3] and $DY_{t'}$ is a dummy variable for year *t'* which takes value one if the observation year *t* is equal to *t'*, otherwise this dummy variable takes value zero. $R_{i,t}$ is the residual term. The coefficient $\beta_{l',t}$ shows the location effect of location *l*' in year *t* on factories' TFP level, while the coefficient $\beta_{f',t}$ shows the firm effect of firm *f*' in year *t* on factories' TFP level.

When we estimate firm and location effects, we ran three-year rolling panel regression. For example, we estimate values of year *t* using data of *t*-2, *t*-1, and *t*. We take this approach in order to avoid endogeneity problems in our estimation of a location choice model. We do not include productivity data of newly set-up factories in our estimation of the firm and the location effects, both of which are used in the estimation of a location choice model.

We estimate firm and location effects using equation (2). In order to take account of the possibility that firm and location effects may differ across industries, we estimated equation (2) separately for the following six manufacturing subsectors, as shown Table 1: materials, chemicals, general machinery, electric machinery, transportation machinery, and miscellaneous products.

Insert Table 1

We calculate the relative TFP level of each factory vis-à-vis the industry average TFP level. Following Good, Nadiri, and Sickles (1997), we measure the TFP level of factory *i* in year *t* in a certain industry in comparison with the TFP level of a hypothetical representative factory in year *t* in that industry using the following equation:

$$\ln TFP_{i,t} = (\ln Q_{i,t} - \overline{\ln Q_t}) - \sum_{n=1}^{N} \frac{1}{2}(s_{n,i,t} + \overline{s_{n,t}})(\ln X_{n,i,t} - \overline{\ln X_{n,t}}) \qquad (3)$$

where $Q_{i,t}$ is the gross output of factory *i* in year *t*, $s_{n,i,t}$ is the cost share of the *n*-th input, and $X_{n,i,t}$ is the amount of the *n*-th input at factory *i* in year *t*. Variables with upper bars denote the arithmetic mean of each variable over all factories in that industry in year *t*. Three inputs, labor, capital, and intermediate input, are taken into account in our analysis.

The main data source for this paper is the longitudinal data of the *Census of Manufactures* conducted by the Ministry of Economy, Trade and Industry (METI). This census covers all manufacturing factories with four or more employees.[4] Since 1997, the data include information on factories' affiliation, so that we can group factories according to their parent firms, although the data

[3] Industry dummy variables are based on JIP industry classification which divides the whole manufacturing sector into 52 subsectors.

[4] Factories with three or fewer employees are included in specific years, starting with the 1981 survey and then in years ending with 0, 3, 5, and 8.

do not include detailed information on parent firms. We used data for the period of 1997-2007.

Gross output is measured as the sum of shipments, revenues from repairing and fixing services, and revenues from performing subcontracted work. Intermediate inputs are defined as the sum of raw materials, fuel, electricity and subcontracting expenses for consigned production used by the plant. Using industry level price deflators taken from the Japan Industrial Productivity Database (JIP) 2010, Gross output and intermediate inputs are converted to values in constant prices of 2000.

Following preceding studies using micro data of the *Census of Manufactures*, we measure labor input in terms of man-hours, calculated as the product of the number of employees and the industry average of annual working hours. The underlying assumption is that the labor service provided by one hour of work is the same for all workers in a particular industry.[5]

Capital input is measured as real capital stock, which is defined as the product of the nominal book value of tangible fixed assets (taken from the *Census of Manufactures*) and the book-to-market value ratio for each industry, which is calculated using industry level investment data and the book value of industry-level capital stock from the *Census of Manufactures*.

Labor costs are defined as total salaries and intermediate costs are defined as the sum of raw materials, fuel, electricity and subcontracting expenses for consigned production provided in the *Census of Manufactures*, respectively. Capital costs are calculated by multiplying the real net capital stock with the user cost of capital. The latter is estimated as follows:

$$c_k = \frac{1-z}{1-u} p_k \{(1-u)i + \delta_j - (\frac{\dot{p}_k}{p_k})\}$$

where p_k, i, δ, u and z are the price of investment goods, the interest rate, the depreciation rate, the corporate tax rate, and the present value of depreciation deduction on a unit of nominal investment, respectively. Data on investment goods prices, interest rates, and corporate tax rates are taken from the JIP 2010, the *Bank of Japan* and the *Ministry of Finance Statistics Monthly*. The depreciation rate for each sector is taken from the JIP 2010. We measure the cost share of each factor by dividing the costs of each factor by total costs, which is the sum of labor costs, intermediate input costs, and capital costs. Figure 1 plots sectoral average values of TFP level over the 11-year period 1997-2007. It shows that the largest increases in relative TFP level occurred in electrical machinery.

Insert Figure 1

[5] We should note that if the labor service provided by one hour of work differs across regions, our estimates of location effects will be biased. For example, factories in a certain ward of the Tokyo metropolitan area might employ more skilled workers than factories in other areas. If we do not take account of this difference and measure labor input by man-hours, we will overestimate the TFP level of factories in this ward.

In the case of independent factories, we cannot decompose the TFP level into the firm effect and the location effect. Similarly, in the case of locations with just one factory for the whole observation period, we cannot decompose the TFP of this factory into the firm effect and the location effect. In the case of locations with only a small number of factories, or in the case of firms that only have a small number of factories, our estimates of firm and location effects are likely to be unreliable. To obtain reliable results, we excluded observations of factories belonging to firms with fewer than three observations or observations of factories located in cities/wards/towns/villages with fewer than three observations. We should note that our approach is not free from sample selection bias problems.

Table 2 shows total number of factories, number of factories, of which TFP were measured, and number of factories, of which TFP data used for measuring firm effects and location effects for each year. The original data set for this paper consists of 3,786,975 (factory times year) observations. We can calculate the TFP level for 909,005 observations. We cannot derive the TFP level for the other 2,877,970 observations (most of them are for small factories) mainly because of the absence of information on capital stocks.[6] The number of observations used for the estimation is 189,270. Table 3 shows total number of cities/wards/towns/villages and number of cities/wards/towns/villages, of which location effects are estimated.

Insert Tables 2 and 3

Table 4 shows the descriptive statistics of this estimation. 51,130 location effects and 119,636 firm effects were estimated, and the standard deviations of firm effects and of location effects are almost of the same size.

Insert Table 4

3. The Characteristics of Firm and Location Effects and Their Relative Importance

In order to examine the characteristics of the estimated firm and location effects, we calculated the coefficients of correlation between these effects and several firm- and location-specific characteristics. The results are shown in Tables 5 and 6. In Table 5, correlation coefficients are calculated across firms, while in Table 6, correlation coefficients are calculated across locations.

[6] This problem is more serious for years after 2001. The reason is that from 2001, the *Census of Manufactures* stopped collecting capital stock data for factories with 29 or fewer employees in non-benchmark years.

Insert Tables 5 and 6

Starting with the correlation between firm effects and other firm characteristics (Table 5), we find a positive correlation between firm effects and the average TFP level of the firm.[7] Firm effects are also positively correlated with factories' gross output as well as the number of factories a firm owns. That is, larger firms tend to generate larger positive firm effects. These results are consistent with Adams and Jaffe (1996) which found a strong correlation between plant-level productivity and the number of plants of a firm.

One caveat with regard to these results, however, is that by relying on the *Census of Manufactures*, which only provides information on manufacturing establishments, the calculation of firms' TFP level does not fully cover firms' headquarter activities and non-manufacturing activities. Thus, in order to examine the correlation with the TFP level of firms' total activities, we also calculated firms' TFP level using micro-data from the *Basic Survey of Japanese Business Structure and Activities*. Again we find a positive correlation between these two variables.

Turning to the correlations between location effects and other location characteristics (Table 6), we find that location effects are positively correlated with weighted average of TFP level of all the factories in the same location.[8]

In order to measure congestion effects (that is, negative effects of economic agglomeration), we prepared data of two variables; wage premiums and land prices. We get land prices from the *Chiiki-keizai-deta CD-ROM* (*Regional Economy Data CD-ROM*) published by Toyo Keizai. We use regional wage premiums obtained by Daiji Kawaguchi and Ryo Kambayashi based on micro data of the *Basic Survey on Wage Structure* as part of their background analysis for a recent study (Kawaguchi and Kambayashi, 2009).[9]

We find that location effects are positively correlated with the regional wage premium, and the

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[7] We calculate the average log value of the TFP of firm *f*' in year *t*, $lnTFP_{f',t}$, as a weighted average of the log value of the TFP level of all the establishments which belong to this firm:

$$\ln TFP_{f',t} = \sum_{f(i)=f'} \frac{sales_{i,t}}{\sum_{f(i')=f'} sales_{i',t}} \ln TFP_{i,t}$$

[8] We calculate the average TFP of location *l*', $lnTFP_{l',t}$, as a weighted average of the log values of the TFP level of all the factories located in this location:

$$\ln TFP_{l',t} = \sum_{l(i)=l'} \frac{sales_{i,t}}{\sum_{l(i')=l'} sales_{i',t}} \ln TFP_{i,t}$$

where $sales_{i,t}$ denotes the total sales of factory *i* in year *t*.

[9] Kawaguchi and Kambayashi estimated regional wage premiums by estimating a Mincer-type wage function with each worker's educational attainment, work experience (defined as age minus years of education minus 6), tenure, quadratic terms of work experience and tenure, factory size, city dummies, and industry dummies as explanatory variables, using all the survey data for full-time male workers across all industries and for all of Japan.

average land price of that location. That is, location effects tend to be greater in areas with higher wage rates and higher land prices.

Next, in order to examine the relationship between location effects and industry agglomeration, we prepared three sets of indices of industry agglomeration for each subsector of each location; total shipment of subsector *j* in location *l*, total number of factories in subsector *j* of location *l*, and density of industry agglomeration ((total shipment of subsector *j* in location *l*)/(square kilometers of location *l*)).

We find a positive correlation between location effects and the three indices of industry agglomeration. It seems that industry agglomeration has a positive effect on factories' productivity.

To sum up our results, both the estimated firm effects and the location effects have plausible characteristics. For example, larger firms tend to generate larger positive firm effects, and firm effects are positively correlated with the average TFP level of all the factories of this firm. Location effects are positively correlated with the average TFP level of all factories in a particular location, and location effects tend to be greater for locations with higher industry agglomeration level.

Table A1 shows a list of locations (city/ward/town/village) ordered by measured location effects in each of the six industries.[10] Although there are some exceptions, locations with a higher industry agglomeration level seem to have higher value of location effects.

The next question we address is how much of the total variation in TFP levels across factories can be explained by firm effects and how much by location effects. In order to answer this question, we conduct an analysis of variance (ANOVA). ANOVA provides a measure of the fit of the regression of the contribution of each variable by measuring how well the variation in each independent variable predicts the variation in the dependent variable.

The ANOVA results are shown in Table 7. In the table, "partial sum of squared deviations" denotes how much the variation of each variable contributes to the total variation (total sum of squared deviations) of the dependent variable, that is, each factory's TFP level. The results show that, in all six manufacturing subsectors, both location and firm effects are important in explaining factories' productivity level. About 40-50 percent of the total variation can be explained by these two effects. The table also shows that in all the manufacturing subsectors, the partial sum of squared deviations of the firm effects is greater than the partial sum of squared deviations of the location effects. Thus, to which firm a factory belongs is a more important determinant of this factory's TFP level than in which location this factory is located.

[10] Location effects in Table A1 are estimated by pooled data regressions of 11 years not by rolling panel regressions. Some of locations hosted only one or two establishments in the 11 years. In such cases, it is necessary to conceal the value of location effects in order to maintain the confidentiality of individual establishments' information in conformity with Japan's Statistics Act. The information of these locations is excluded from Table A1.

Insert Table 7

4. Do More Productive Firms Set Up Their Factories in More Productive Locations?

In this section, we examine the relationship between firm and location effects. Above, it was suggested that firm effects on factory-level productivity have a positive correlation with firm size and the average TFP level of all the factories of this firm. Similarly, location effects have a positive correlation with the average TFP level of all the factories in a particular location and the location's industry agglomeration. This raises the question whether "self-sorting" occurs in that more productive firms set up their factories in more productive locations.

However, before conducting our analysis of location decisions, we examine the static correlation between firm and location effects across factories. The results are shown in Table 8 and in Figure 2, indicating that there is a statistically significant negative correlation between firm and location effects for all six manufacturing subsectors.

Insert Table 8 and Figure 2

What causes this negative relationship? One potential explanation is that more productive firms may tend to set up new factories in less productive locations such as rural areas, where factor prices such as land prices and wage rates are usually low, in order to benefit from low factor costs. On the other hand, less productive firms may be unable to locate new factories in rural areas because of their inability to solve logistical problems, which are common in rural areas.

To determine the cause of the negative relationship, we calculate correlation coefficients across factories between firm effects and location characteristics. We use two variables for location characteristics: wage premiums, and land prices.[11] Table 9 shows the results, which indicate that there is no clear pattern suggesting that more productive firms tend to place their factories in locations with low wage premiums or low land prices. While a negative and significant correlation between firm effects and land price can be observed in the general machinery industry, the correlations between firm effects and wage premiums or land prices in all other subsectors are either insignificant or actually significantly positive.

Insert Table 9

So far, our analysis has focused on factories of all ages. However, many of the factories in our

[11] Examining the correlation between these variables across locations, we find a high positive correlation between wage premiums and land prices.

sample were set up a long time ago and the regional characteristics on which location decisions were originally based may have changed since the establishment of these factories. In order to take this into account, we also examine the correlation between firm effects for newly opened factories and regional characteristics in the year they were established.

To do so, we estimate the following mixed logit model of location choice:

$$\Pr(y_{f,t} = l) = \frac{\exp(\beta' z_{f,l,t})}{\sum_{l'=1}^{L} \exp(\beta' z_{f,l',t})} \qquad for \;\; l = 1...L \; and \; t = 1....T$$

where the left-hand side denotes the probability of observing the establishment of a factory in year t by firm f in location l, $z_{f,l,t}$ denotes a vector including characteristics of location l and cross terms between characteristics of firm f and characteristics of location l as its elements, and β is the coefficient vector.

The number of newly opened factories, of which it is possible to calculate firm and location effects, and their distribution over time are shown in Table 10. The numbers are not very large, partly because Japan's manufacturing sector has shrunk rapidly during this period and partly because we can calculate both firm and location effects only for a fraction of newly established factories.

Insert Table 10

Correlation coefficients between the location variables used in the estimation are reported in Table 11. High correlation coefficients suggest that there is a risk of multi-collinearly problems. Because of this risk, we do not use all the location variables within one equation.

Insert Table 11

The results of our estimation of the mixed logit model of location decision are presented in Table 12. Specification 1 represents the baseline estimation and as independent variables only includes the location effect, one of the location variables and the number of factories of the same firm in the same location.[12]. The estimated coefficients on the location effect are positive in most cases and significant. This result provides a strong evidence suggesting that firms tend to prefer more productive locations. Table 12.2 shows the same estimation results with the sample of the machinery industries (including General Machinery, Electric Machinery, and Transportation

[12] In all the estimation, we observe that the presence of factories of the same firm in the same prefecture has very strong effects on the probability of the selection of that location.

Machinery), which is almost same to that of Table 12.1.

Insert Table 12.1 and Table 12.2

In the estimation in Table 13, we added a cross term of location effects and firm effects. The estimated coefficients on the cross term of firm and location effects are negative and significant. This result implies that more productive firms tend to be less attracted to more productive locations. This finding is consistent with the results of our analysis of the correlation between firm and location effects across factories. In Table 13 we also estimated a model with industry agglomeration and its cross term with firm effect. The results show that industry agglomeration has positive impact on the location choice, and that it is more important for the productive firms in machinery industries.

Insert Table 13.1 and Table 13.2

As already mentioned, one possible explanation of the negative correlation between firm and location effects is that more productive firms tend to set up their factories in less productive locations, such as rural areas, so as to exploit the lower factor prices there. Moreover, they can do so because they are able to overcome the logistical problems that may be associated with locating production in rural areas – something that typically smaller less productive firms cannot do. If this hypothesis is correct, high factor prices should have a negative effect on firms' location decision. To test this, we added factor price variables such as the regional wage premium and land prices to our specification of Table 13.

The results are reported in Table 14. Against expectation, we do not find any statistically significant negative effects of factor prices on location decisions in specifications 1 and 2 of Table 14. One possible explanation for this result is that, because the equation does not include sufficient variables to control for the positive effects of agglomeration, the estimate for the local wage premium picks up these effects.

Another question of considerable interest is what causes location effects. As many studies in the field of economic geography have argued, one potential factor is the industry agglomeration. To test the importance of agglomeration effects for location decisions, we replaced the location effect variable with industry agglomeration in our analysis of location choice. If more productive firms are less attracted by industry agglomeration, a negative coefficient for the cross term of firm effects and industrial agglomeration is expected. The results are reported as specifications 3 and 4 in Table 14. We find that industry agglomeration has a positive and statistically significant effect on location decision in all industries. But we do not find negative and significant coefficient for the cross term of firm effects and industry agglomeration.

In specifications 5 and 6, we test another possibility that location effect and industry agglomeration captures pretty different aspects of the attraction of locations by adding the industry agglomeration to the location effects and its cross term with firm effects as an explanatory variable. The table shows that controlling such regional merits as location effects estimated above, industry agglomeration, and presence of factories of the same firm, factor prices such as wage premium and land price have negative effect on the choice. This result is consistent with our hypothesis.

Insert Table 14.1 and 14.2

5. Conclusion

Using micro data of Japan's *Census of Manufactures*, we decomposed the TFP level of each factory into firm effects, location effects, and other, factory specific factors such as size and age. Both the estimated firm effects and the estimated location effects have plausible characteristics. That is, larger firms tend to generate larger positive firm effects. and firm effects are positively correlated with the average TFP level of all the factories of this firm. Location effects are positively correlated with the average TFP level of all factories in a particular location, and location effects tend to be positively correlated with industrial agglomeration.

Based on the estimated firm and location effects, we also conducted an analysis of variance and found that both location and firm effects play a role in explaining factories' TFP levels. In addition, comparing the contribution of the two effects, it was found that both location and firm effects have a statistically significant and large influence on factories' productivity, and firm effects were the more important of the two.

Next, our attention turned to the correlation between firm and location effects, which was negative. That is, more productive firms tended to have factories in cities with weaker location effects. We hypothesized that the reason for this may be that more productive firms set up their factories in less productive locations such as rural areas to benefit from low factor prices there. To test this hypothesis, we estimated a location choice model. Consistent with our hypothesis, the estimation results showed that location effects had a positive effect on location decisions and the cross term of firm and location effects a significant negative effect. However, against our expectation, we did not find a negative and significant effect of factor prices, such as wage premiums and land prices, on location choices.

These findings mean that we need to examine our estimates of firm and location effects further. We found a positive and significant correlation between location effects and industry agglomeration, but the correlation coefficient is not very large. When we replaced the location effect variable in our location choice analysis with industry agglomeration, we found a positive and statistically significant

effect on location decisions. However, we did not find a negative and significant coefficient on the cross term, that is, firm effects times industrial agglomeration. These results indicate that we still do not understand well what local characteristics cause positive location effects.

We also tested another possibility that location effect and industry agglomeration captures pretty different aspects of the attraction of locations by adding the industry agglomeration to the location effects and its cross term with firm effects as an explanatory variable. We found that controlling such regional merits as location effects estimated above, industry agglomeration, and presence of factories of the same firm, factor prices such as wage premium and land price have negative effect on the choice. This result is consistent with our hypothesis.

In the case of firm effects, we found a positive and significant correlation between firm size and firm effects, but we were unable to examine how other firm specific factors, such as research and development expenditures, information technology investment, or the accumulation of intangible assets, affect firm effects, because of a lack of such data. We hope that we can investigate these issues in the future by matching our micro data of the *Census of Manufactures* with other firm level data.

There are also several additional issues that still need to be tackled. First, as we have already highlighted, our approach is not free from sample selection bias problems. And second, it is likely that firms make decisions on the location of new factories in the context of their networks already in place. These are factors that a more refined location choice model should address and we hope to develop and test such a model in the future.

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Table 1. Industry Classification

JIP industry classification	Industry classification of this paper
8 Livestock products	6 Miscellaneous products
9 Seafood products	6 Miscellaneous products
10 Flour and grain mill products	6 Miscellaneous products
11 Miscellaneous foods and related products	6 Miscellaneous products
12 Prepared animal foods and organic fertilizers	6 Miscellaneous products
13 Beverages	6 Miscellaneous products
14 Tobacco	6 Miscellaneous products
15 Textile products	6 Miscellaneous products
16 Lumber and wood products	1 Material products
17 Furniture and fixtures	1 Material products
18 Pulp, paper, and coated and glazed paper	1 Material products
19 Paper products	1 Material products
20 Printing, plate making for printing and bookbinding	6 Miscellaneous products
21 Leather and leather products	1 Material products
22 Rubber products	1 Material products
23 Chemical fertilizers	2 Chemicals
24 Basic inorganic chemicals	2 Chemicals
25 Basic organic chemicals	2 Chemicals
26 Organic chemicals	2 Chemicals
27 Chemical fibers	2 Chemicals
28 Miscellaneous chemical products	2 Chemicals
29 Pharmaceutical products	2 Chemicals
30 Petroleum products	2 Chemicals
31 Coal products	2 Chemicals
32 Glass and its products	1 Material products
33 Cement and its products	1 Material products
34 Pottery	1 Material products
35 Miscellaneous ceramic, stone and clay products	1 Material products
36 Pig iron and crude steel	1 Material products
37 Miscellaneous iron and steel	1 Material products
38 Smelting and refining of non-ferrous metals	1 Material products
39 Non-ferrous metal products	1 Material products
40 Fabricated constructional and architectural metal products	1 Material products
41 Miscellaneous fabricated metal products	1 Material products
42 General industry machinery	3 General machinery
43 Special industry machinery	3 General machinery
44 Miscellaneous machinery	3 General machinery
45 Office and service industry machines	3 General machinery
46 Electrical generating, transmission, distribution and industrial apparatus	4 Electric machinery
47 Household electric appliances	4 Electric machinery
48 Electronic data processing machines, digital and analog computer equipment and accessories	4 Electric machinery
49 Communication equipment	4 Electric machinery
50 Electronic equipment and electric measuring instruments	4 Electric machinery
51 Semiconductor devices and integrated circuits	4 Electric machinery
52 Electronic parts	4 Electric machinery
53 Miscellaneous electrical machinery equipment	4 Electric machinery
54 Motor vehicles	5 Transportation machinery
55 Motor vehicle parts and accessories	5 Transportation machinery
56 Other transportation equipment	5 Transportation machinery
57 Precision machinery & equipment	3 General machinery
58 Plastic products	6 Miscellaneous products
59 Miscellaneous manufacturing industries	6 Miscellaneous products

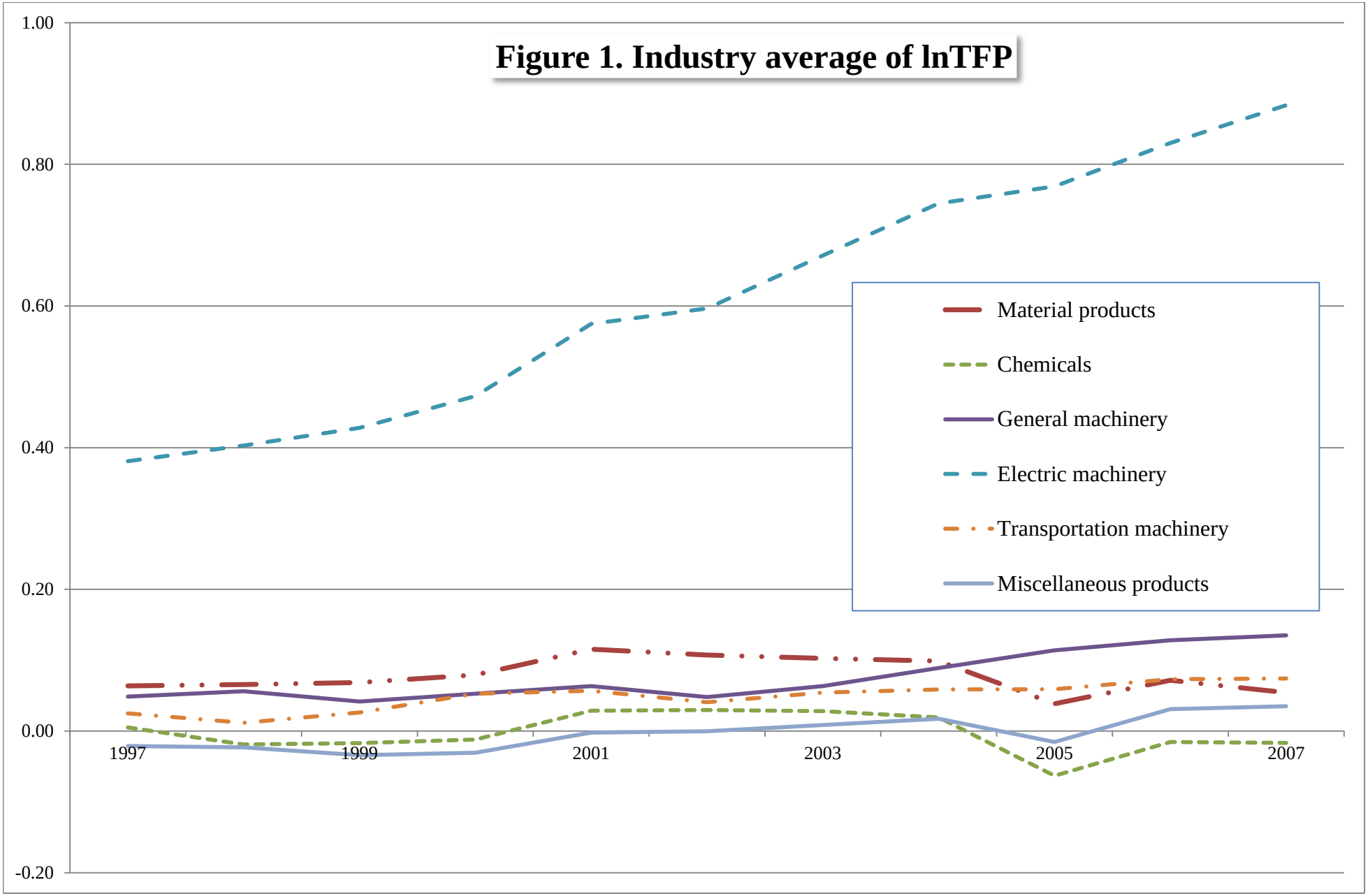
Figure 1. Industry average of lnTFP
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
1997
1999
2001
2003
2005
2007
Material products
Chemicals
General machinery
Electric machinery
Transportation machinery
Miscellaneous products

Table 2. Number of Observations

year	Total number of factories	Number of factories, of which TFP were measured	Number of factories, of which TFP data were used for measuring firm effects and location effects
1997	358,246	142,872	7,393
1998	373,713	141,379	14,615
1999	345,457	134,554	22,174
2000	341,421	130,432	22,094
2001	316,267	43,597	17,592
2002	290,848	41,657	16,818
2003	504,503	40,780	16,525
2004	270,905	40,483	17,393
2005	468,840	110,799	21,553
2006	258,543	40,837	15,168
2007	258,232	41,615	17,945
Total	3,786,975	909,005	189,270

Table 3. Number of Cities/Wards/Towns/Villages (Year=2005)

	Prefecture	Total number of cities, wards, towns and villages	Total number of cities, wards, towns and villages, of which TFP were measured
1	Hokkai-do	186	108
2	Aomori	40	31
3	Iwate	35	31
4	Miyagi	36	34
5	Akita	25	21
6	Yamagata	35	32
7	Fukushima	59	49
8	Ibaragi	44	44
9	Tochigi	31	31
10	Gunma	38	33
11	Saitama	70	68
12	Chiba	56	52
13	Tokyo	62	52
14	Kanagawa	50	46
15	Niigata	30	29
16	Toyama	15	15
17	Ishikawa	19	17
18	Fukui	17	15
19	Yamanashi	28	23
20	Nagano	81	57
21	Gifu	42	40
22	Shizuoka	38	30
23	Aichi	76	72
24	Mie	29	27
25	Shiga	26	23
26	Kyoto	36	31
27	Osaka	66	62
28	Hyogo	48	47
29	Nara	39	24
30	Wakayama	30	19
31	Tottori	19	16
32	Shimane	21	16
33	Okayama	27	25
34	Hiroshima	30	28
35	Yamaguchi	20	19
36	Tokushima	24	19
37	Kagawa	17	17
38	Ehime	20	19
39	Kouchi	34	19
40	Fukuoka	76	68
41	Saga	20	18
42	Nagasaki	23	15
43	Kumamoto	47	39
44	Oita	18	16
45	Miyazaki	30	22
46	Kagoshima	45	30
47	Okinawa	41	20
	Total	1,899	1,569

Table 4. Descriptive Statistics of Location Effects and Firm Effects

(1) Location effects

Industry	Number of observation	Mean	Standard deviation	Min	Median	Max
Material products	11,588	-0.005	0.277	-2.233	0.000	1.589
Chemicals	5,045	-0.056	0.502	-3.194	-0.035	2.629
General machinery	8,476	0.106	0.504	-2.660	0.040	2.572
Electric machinery	8,827	-0.183	0.396	-2.347	-0.178	1.901
Transportation machinery	5,090	-0.001	0.297	-1.675	0.000	1.138
Miscellaneous products	12,104	-0.018	0.388	-2.529	0.003	2.104
Total	51,130	-0.025	0.404	-3.194	-0.012	2.629

(2) Firm effects

Industry	Number of observation	Mean	Standard deviation	Min	Median	Max
Material products	32,990	-0.076	0.322	-1.917	-0.065	2.208
Chemicals	8,263	0.011	0.561	-2.509	0.000	3.404
General machinery	19,771	-0.010	0.512	-2.789	0.000	3.754
Electric machinery	17,737	-0.135	0.428	-2.536	-0.084	2.032
Transportation machinery	8,752	0.001	0.285	-1.326	0.000	1.445
Miscellaneous products	32,123	-0.080	0.536	-3.257	-0.069	2.573
Total	119,636	-0.063	0.454	-3.257	-0.024	3.754

Table 5. Correlation Coefficients between Firm Variables

Variables	1	2	3	4	5	6
1 Firm effects	1					
2 Σshipment of the firm	0.134	1				
3 Number of employees	0.051	0.851	1			
4 Number of factories of the firm	0.022	0.465	0.512	1		
5 Weighted average of ln*TFP* of the firm	0.298	0.258	0.170	0.040	1	
6 lnTFP derived from Basic Survey Data*	0.076	0.329	0.233	-0.008	0.563	1

Note: 1. All the coefficients are statistically significant at 1% level.

2. Basic Survey is *Basic Survey of Japanese Business Structure and Activities* .

Table 6. Correlation Coefficients between Location Variables

Variables	1	2	3	4	5	6	7
1 Location effects (by location and by subsector)	1						
2 ln(Total shipment of the same subsector in the location)	0.087	1					
3 ln(Number of factories in the same subsector in the location)	0.081	0.637	1				
4 Wage premium	0.059	0.265	0.158	1			
5 ln(Land price of the city)	0.061	0.248	0.257	0.567	1		
6 Weighted average of ln*TFP* of factories in the same subsector of the location	0.065	0.197	-0.076	0.107	0.067	1	
7 ln(Industry agglomeration)	0.088	0.855	0.579	0.365	0.504	0.184	1

Note: All the coefficients are statistically significant at 1% level.

Table 7. Results of ANOVA

	Source	Partial usm of	Degrees of	Mean square	*F*	Prob > *F*
Material products	Model	2,687.7	6860	0.392	11.0	0
	Age of the factory	2.8	1	2.795	78.8	0
	ln(number of employees)	3.8	1	3.755	105.9	0
	Location	338.9	1335	0.254	7.2	0
	Firm	1,920.0	5498	0.349	9.8	0
	Industry (JIP)	7.6	15	0.507	14.3	0
	Year	35.7	10	3.574	100.8	0
	Residual	2,079.1	58610	0.035		
	Total	4,766.8	65470	0.073		
Chemicals	Model	1,626.9	1912	0.851	17.7	0
	Age of the factory	1.8	1	1.781	37.0	0
	ln(number of employees)	0.2	1	0.208	4.3	0.0379
	Location	363.9	667	0.546	11.3	0
	Firm	940.5	1225	0.768	15.9	0
	Industry (JIP)	10.3	8	1.285	26.7	0
	Year	11.1	10	1.108	23.0	0
	Residual	696.3	14448	0.048		
	Total	2,323.2	16360	0.142		
General machinery	Model	1,340.6	4169	0.322	10.3	0
	Age of the factory	0.9	1	0.872	28.0	0
	ln(number of employees)	1.1	1	1.115	35.9	0
	Location	254.4	1014	0.251	8.1	0
	Firm	902.1	3139	0.287	9.2	0
	Industry (JIP)	0.5	4	0.114	3.7	0.0053
	Year	12.1	10	1.208	38.8	0
	Residual	888.5	28567	0.031		
	Total	2,229.1	32736	0.068		
Electric machinery	Model	2,289.8	3935	0.582	15.1	0
	Age of the factory	0.0	1	0.017	0.4	0.5104
	ln(number of employees)	0.6	1	0.564	14.7	0.0001
	Location	284.9	1070	0.266	6.9	0
	Firm	963.8	2846	0.339	8.8	0
	Industry (JIP)	1.8	7	0.257	6.7	0
	Year	343.1	10	34.306	890.8	0
	Residual	1,121.1	29112	0.039		
	Total	3,410.9	33047	0.103		
Transportation machinery	Model	490.7	1906	0.257	9.7	0
	Age of the factory	0.2	1	0.198	7.4	0.0064
	ln(number of employees)	2.8	1	2.772	104.0	0
	Location	144.2	655	0.220	8.3	0
	Firm	269.9	1237	0.218	8.2	0
	Industry (JIP)	2.2	2	1.123	42.1	0
	Year	2.9	10	0.287	10.8	0
	Residual	407.1	15268	0.027		
	Total	897.8	17174	0.052		
Miscellaneous products	Model	4,134.1	6393	0.647	18.6	0
	Age of the factory	6.1	1	6.138	176.3	0
	ln(number of employees)	4.4	1	4.393	126.1	0
	Location	415.3	1380	0.301	8.6	0
	Firm	2,605.0	4992	0.522	15.0	0
	Industry (JIP)	2.9	9	0.318	9.1	0
	Year	4.6	10	0.459	13.2	0
	Residual	1,912.1	54904	0.035		
	Total	6,046.1	61297	0.099		

Table 8. Correlation Coefficients between Location Effects and Firm Effects

Industry	Correlation Coeffcients
Material products	-0.438
Chemicals	-0.491
General machinery	-0.644
Electric machinery	-0.667
Transportation machinery	-0.620
Miscellaneous products	-0.205

Note: All the coeffcients are statistically significant at 1% level.

Figure 2. Scatter Diagrams of Location Effects and Firm Effects

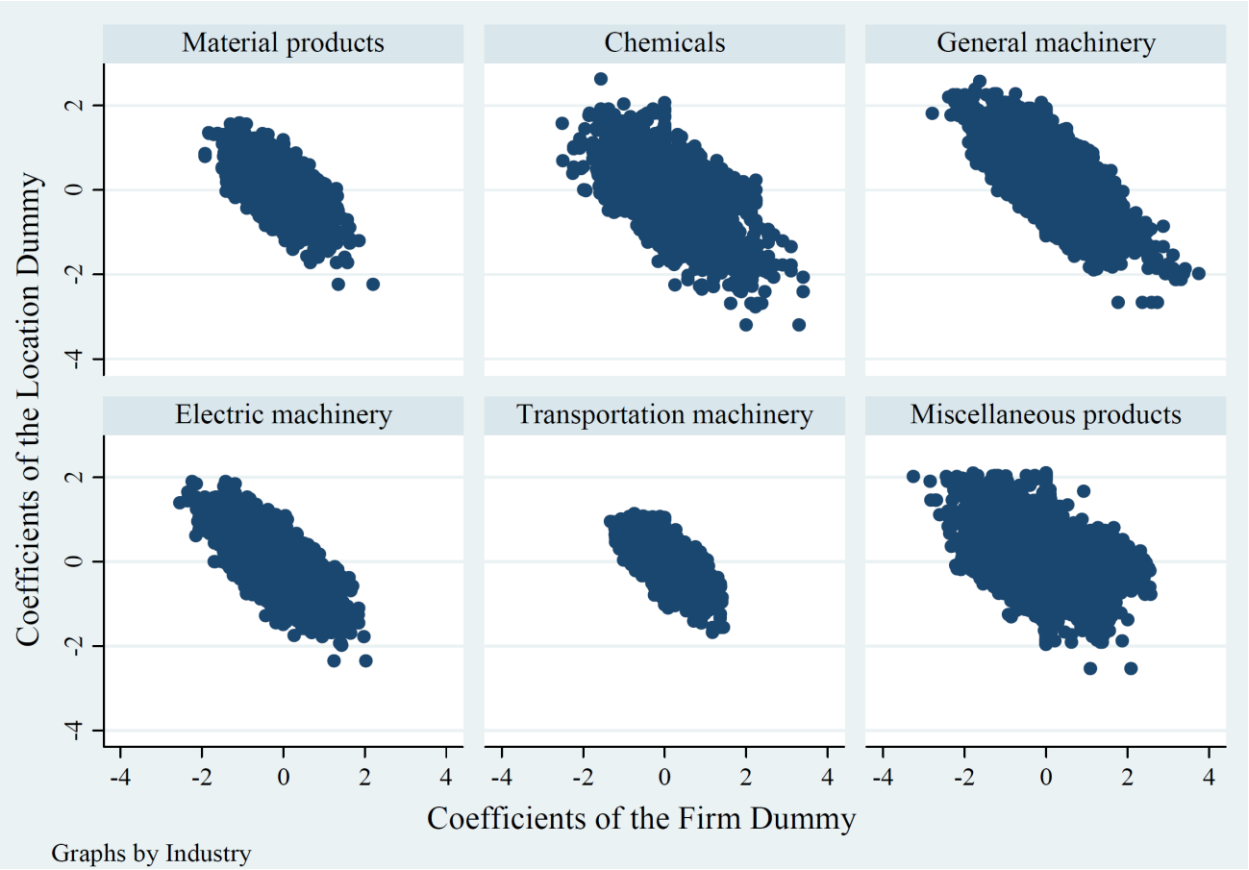

Table 9. Correlation Coefficients between Firm Effects and Location Variables

	Variables	1	2	3
Material products	1 Firm effects	1		
	2 Wage premium	0.0189***	1	
	3 Land price of the city	0.0120**	0.5709***	1
Chemicals	1 Firm effects	1		
	2 Wage premium	0.010	1	
	3 Land price of the city	0.0171**	0.4963***	1
General machinery	1 Firm effects	1		
	2 Wage premium	0.0111*	1	
	3 Land price of the city	-0.0183***	0.06145***	1
Electric machinery	1 Firm effects	1		
	2 Wage premium	0.0483***	1	
	3 Land price of the city	0.0316***	0.6373***	1
Transportation machinery	1 Firm effects	1		
	2 Wage premium	0.0156*	1	
	3 Land price of the city	0.0585***	0.5432***	1
Miscellaneous products	1 Firm effects	1		
	2 Wage premium	0.0525***	1	
	3 Land price of the city	0.1253***	0.6517***	1

Table 10. Number of Observations of Factory Startups in Location Choice Estimation

Industry	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Total
Material products	113	44	44	34	20	36	36	62	50	87	526
Chemicals	23	11	15	10	13	10	9	10	6	24	131
General machinery	44	19	21	18	19	17	10	21	15	54	238
Electric machinery	50	26	12	21	31	30	35	21	39	29	294
Transportation machinery	23	6	11	2	11	13	25	17	28	36	172
Miscellaneous product	156	38	39	43	44	42	24	47	45	139	617
Total	409	144	142	128	138	148	139	178	183	369	1,978

Notes: In our estimation, we used data of new factories, for which both the location effect data and the firm effect data are available. Therefore, the number of observations is much smaller than the number of all the startups.

Table 11.1 Correlation Coefficient between Locatoin Variables: Manufacturing Sector

Variables	1	2	3	4
1 Location effects	1			
2 Wage premium	0.075	1		
3 ln(Land price of the city)	0.089	0.565	1	
4 Indusrty Agglomeration	0.117	0.371	0.541	1

Table 11.2. Correlation Coefficient between Locatoin Variables: Machinery Sector (General Machinery, Electric Machinery, and Transportation Machinery)

1 Location effects	1			
2 Wage premium	0.061	1		
3 ln(Land price of the city)	0.058	0.582	1	
4 Indusrty Agglomeration	0.073	0.391	0.470	1

Note. All the coeffcients are statistically significant at 1% level.

Table 12.1 Results of Mixed Logit Estmation 1: Manufacturing Sector

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Location effect	0.146 **				0.122 *	0.128 **	-0.0318
	(0.063)				(0.063)	(0.064)	(0.070)
Wage premium (t-1)		1.14 ***			1.13 ***		
		(0.153)			(0.153)		
ln(Land price of the city) (t-1)			0.169 ***			0.167 ***	
			(0.025)			(0.025)	
Indusrty agglomeration (t-1)				0.405 ***			0.406 ***
				(0.014)			(0.014)
ln(1+Number of factory of the same firm	3.65 ***	3.62 ***	3.61 ***	3.64 ***	3.62 ***	3.61 ***	3.64 ***
in the same prefecture (t-1))	(0.068)	(0.068)	(0.069)	(0.071)	(0.068)	(0.069)	(0.071)
R-squared	0.105	0.107	0.107	0.14	0.107	0.107	0.14
Log-likelihood	-1.26E+04	-1.25E+04	-1.22E+04	-1.12E+04	-1.25E+04	-1.22E+04	-1.12E+04
Number of observations	1,887,285	1,853,868	1,791,607	1,755,951	1,853,868	1,791,607	1,755,951

Table12.2 Results of Mixed Logit Estmation 1: Machinery Sector (General Machinery, Electric Machinery, and Transportation Machinery)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Location effect	0.172 *				0.153	0.156	0.0968
	(0.098)				(0.098)	(0.100)	(0.106)
Wage premium (t-1)		1 ***			0.988 ***		
		(0.272)			(0.273)		
ln(Land price of the city) (t-1)			0.0844 *			0.0825 *	
			(0.045)			(0.045)	
Indusrty agglomeration (t-1)				0.332 ***			0.331 ***
				(0.023)			(0.023)
ln(1+Number of factory of the same firm	4.04 ***	4.03 ***	3.97 ***	4.08 ***	4.03 ***	3.97 ***	4.08 ***
in the same prefecture (t-1))	(0.121)	(0.121)	(0.121)	(0.129)	(0.121)	(0.121)	(0.129)
R-squared	0.132	0.133	0.131	0.163	0.134	0.131	0.163
Log-likelihood	-4.17E+03	-4.15E+03	-4.05E+03	-3.63E+03	-4.15E+03	-4.05E+03	-3.63E+03
Number of observations	524,215	520,626	499,568	470,761	520,626	499,568	470,761

Note 1. Standard errors are in parentheses.
2. * p<.1, ** p<.05, *** and p<.01

Table 13.1 Results of Mixed Logit Estmation 2: Manufacturing Sector

	(1)	(2)	(3)	(4)
Location effect	3.57 ***	3.44 ***		
	(0.230)	(0.235)		
Location effect*Firm effect	-1.54 ***	-1.49 ***		
	(0.101)	(0.103)		
Indusrty agglomeration (t-1)			0.244 ***	0.261 ***
			(0.062)	(0.063)
Indusrty agglomeration(t-1)*Firm effect			0.076 ***	0.066 **
			(0.028)	(0.028)
ln(1+Number of factory of the same firm		3.65 ***		3.64 ***
in the same prefecture (t-1))		(0.068)		(0.071)
R-squared	0.008	0.113	0.037	0.14
Log-likelihood	-1.39E+04	-1.25E+04	-1.26E+04	-1.12E+04
Number of observations	1,887,285	1,887,285	1,755,951	1,755,951

Table 13.2 Results of Mixed Logit Estmation 2: Machinery Sector (General Machinery, Electric Machinery, and Transportation Machinery)

	(1)	(2)	(3)	(4)
Location effect	4.4 ***	4.26 ***		
	(0.346)	(0.363)		
Location effect*Firm effect	-1.94 ***	-1.9 ***		
	(0.156)	(0.164)		
Indusrty agglomeration (t-1)			0.304 ***	0.297 ***
			(0.095)	(0.097)
Indusrty agglomeration(t-1)*Firm effect			0.019	0.017
			(0.043)	(0.044)
ln(1+Number of factory of the same firm		4.04 ***		4.08 ***
in the same prefecture (t-1))		(0.122)		(0.129)
R-squared	0.017	0.148	0.029	0.163
Log-likelihood	-4.72E+03	-4.09E+03	-4.20E+03	-3.63E+03
Number of observations	524,215	524,215	470,761	470,761

Note 1. Standard errors are in parentheses.
2. * p<.1, ** p<.05, *** and p<.01

Table 14.1 Results of Mixed Logit Estmation 3: Manufacturing Sector

	(1)	(2)	(3)	(4)	(5)	(6)
Location effect	3.41 ***	3.42 ***			3.66 ***	3.67 ***
	(0.236)	(0.238)			(0.255)	(0.259)
Location effect*Firm effect	-1.49 ***	-1.49 ***			-1.66 ***	-1.67 ***
	(0.104)	(0.104)			(0.111)	(0.113)
Indusrty agglomeration (t-1)			0.265 ***	0.326 ***	0.427 ***	0.468 ***
			(0.064)	(0.064)	(0.015)	(0.016)
Indusrty agglomeration (t-1)・Firm effect			0.072 **	0.063 **		
			(0.028)	(0.028)		
Wage premium (t-1)	1.12 ***		-0.635 ***		-0.656 ***	
	(0.153)		(0.183)		(0.183)	
ln(Land price of the city)(t-1)		0.166 ***		-0.247 ***		-0.251 ***
		(0.025)		(0.030)		(0.030)
ln(1+Number of factory of the same firm	3.62 ***	3.61 ***	3.63 ***	3.64 ***	3.62 ***	3.63 ***
in the same prefecture (t-1))	(0.069)	(0.069)	(0.071)	(0.071)	(0.071)	(0.071)
R-squared	0.115	0.115	0.141	0.144	0.148	0.152
Log-likelihood	-1.24E+04	-1.21E+04	-1.12E+04	-1.09E+04	-1.11E+04	-1.08E+04
Number of observations	1,853,868	1,791,607	1,725,699	1,675,350	1,725,699	1,675,350

Table 14.2 Results of Mixed Logit Estmation 3: Machinery Sector (General Machinery, Electric Machinery, and Transportation Machinery)

	(1)	(2)	(3)	(4)	(5)	(6)
Location effect	4.24 ***	4.28 ***			4.62 ***	4.64 ***
	(0.362)	(0.366)			(0.393)	(0.401)
Location effect*Firm effect	-1.89 ***	-1.9 ***			-2.09 ***	-2.1 ***
	(0.164)	(0.165)			(0.177)	(0.180)
Indusrty agglomeration (t-1)			0.316 ***	0.34 ***	0.349 ***	0.375 ***
			(0.097)	(0.098)	(0.025)	(0.025)
Indusrty agglomeration (t-1)・Firm effect			0.016	0.017		
			(0.044)	(0.044)		
Wage premium (t-1)	0.972 ***		-0.738 **		-0.766 **	
	(0.274)		(0.323)		(0.324)	
ln(Land price of the city)(t-1)		0.0827 *		-0.245 ***		-0.245 ***
		(0.045)		(0.053)		(0.054)
ln(1+Number of factory of the same firm	4.02 ***	3.97 ***	4.07 ***	4.01 ***	4.04 ***	3.98 ***
in the same prefecture (t-1))	(0.122)	(0.122)	(0.129)	(0.128)	(0.129)	(0.129)
R-squared	0.149	0.147	0.163	0.164	0.18	0.181
Log-likelihood	-4.08E+03	-3.98E+03	-3.62E+03	-3.52E+03	-3.55E+03	-3.44E+03
Number of observations	520,626	499,568	467,610	450,038	467,610	450,038

Note 1. Standard errors are in parentheses.
2. * p<.1, ** p<.05, *** and p<.01

Table A1. Ranking of the Measured Location Effect

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	1	Saitama	Hanno-Shi	0.767
1	2	Fukushima	Kawamata-Machi Date-Gun	0.756
1	3	Osaka	Kawachinagano-Shi	0.735
1	4	Chiba	Tomisato-Shi	0.617
1	5	Niigata	Ojiya-Shi	0.615
1	6	Toyama	Kamiichi-Machi Nakaniikawa-Gun	0.537
1	7	Chiba	Nagara-Machi Chosei-Gun	0.486
1	8	Aichi	Kanie-Cho Ama-Gun	0.465
1	9	Hokkaido	Naie-Cho Sorachi-Gun	0.454
1	10	Fukuoka	Nishi-Ku Fukuoka-Shi	0.430
1	11	Aichi	Miwa-cho	0.415
1	12	Fukui	Katsuyama-Shi	0.413
1	13	Tochigi	Tochigi-Shi	0.382
1	14	Tokyo	Machida-Shi	0.380
1	15	Kanagawa	Hodogaya-Ku Yokohama-Shi	0.353
1	16	Tochigi	Nasukarasuyama-Shi	0.352
1	17	Mie	Taki-Cho Taki-Gun	0.320
1	18	Tokyo	Taito-Ku	0.311
1	19	Aichi	Aisai-Shi	0.307
1	20	Nagano	Matsukawa-Machi Shimoina-Gun	0.304
1	21	Tochigi	Tsuga-cho	0.304
1	22	Aichi	Atsuta-Ku Nagoya-Shi	0.303
1	23	Osaka	Suita-Shi	0.298
1	24	Oita	Tsukumi-Shi	0.275
1	25	Miyagi	Rifu-Cho Miyagi-Gun	0.260
1	26	Ibaraki	Sakuragawa-Shi	0.260
1	27	Niigata	Sanjo-Shi	0.258
1	28	Mie	Kawagoe-Cho Mie-Gun	0.255
1	29	Saitama	Asaka-Shi	0.255
1	30	Kochi	Susaki-Shi	0.253
1	31	Aichi	Chita-Shi	0.253
1	32	Fukuoka	Hakata-Ku Fukuoka-Shi	0.244
1	33	Okayama	Yakage-Cho Oda-Gun	0.237
1	34	Nara	Katsuragi-Shi	0.228
1	35	Hokkaido	Kushiro-Shi	0.228
1	36	Ehime	Ozu-Shi	0.224
1	37	Kagawa	Sanuki-Shi	0.224
1	38	Saga	Taku-Shi	0.218
1	39	Tokyo	Inagi-Shi	0.215
1	40	Miyagi	Kami-Machi Kami-Gun	0.214
1	41	Hokkaido	Hokuto-Shi	0.214
1	42	Tochigi	Kaminokawa-Machi Kawachi-Gun	0.210
1	43	Shiga	Taga-Cho Inukami-Gun	0.210
1	44	Kyoto	Kumiyama-Cho Kuse-Gun	0.206
1	45	Kagoshima	Hioki-Shi	0.199
1	46	Aichi	Konan-Shi	0.198
1	47	Aichi	Higashiura-Cho Chita-Gun	0.193
1	48	Tochigi	Nasu-Machi Nasu-Gun	0.186
1	49	Chiba	Narashino-Shi	0.185
1	50	Aichi	Miyoshi-cho	0.180
1	51	Kumamoto	Kashima-Machi Kamimashiki-Gun	0.180

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	52	Saitama	Kurihashi-cho	0.178
1	53	Shizuoka	Susono-Shi	0.175
1	54	Akita	Yokote-Shi	0.174
1	55	Akita	Odate-Shi	0.172
1	56	Shizuoka	Nagaizumi-Cho Sunto-Gun	0.168
1	57	Miyagi	Watari-Cho Watari-Gun	0.167
1	58	Aichi	Kozakai-cho	0.165
1	59	Ibaraki	Hitachiota-Shi	0.164
1	60	Kochi	Ino-Cho Agawa-Gun	0.159
1	61	Fukushima	Sukagawa-Shi	0.158
1	62	Aichi	Nishio-Shi	0.157
1	63	Ishikawa	Hakui-Shi	0.157
1	64	Saitama	Koshigaya-Shi	0.156
1	65	Aichi	Tokoname-Shi	0.156
1	66	Nara	Kawanishi-Cho Shiki-Gun	0.156
1	67	Yamagata	Sagae-Shi	0.154
1	68	Shizuoka	Mishima-Shi	0.154
1	69	Kagoshima	Kimotsuki-Cho Kimotsuki-Gun	0.153
1	70	Ibaraki	Ryugasaki-Shi	0.153
1	71	Saitama	Kasukabe-Shi	0.152
1	72	Gifu	Mizunami-Shi	0.152
1	73	Ibaraki	Itako-Shi	0.151
1	74	Hyogo	Kasai-Shi	0.149
1	75	Niigata	Agano-Shi	0.146
1	76	Yamanashi	Fuefuki-Shi	0.146
1	77	Saitama	Ina-Machi Kitaadachi-Gun	0.145
1	78	Chiba	Shibayama-Machi Sambu-Gun	0.144
1	79	Yamaguchi	Sanyoonoda-Shi	0.143
1	80	Hiroshima	Kaita-Cho Aki-Gun	0.142
1	81	Tokyo	Akishima-Shi	0.141
1	82	Hyogo	Tarumi-Ku Kobe-Shi	0.140
1	83	Aichi	Taketoyo-Cho Chita-Gun	0.137
1	84	Nara	Tawaramoto-Cho Shiki-Gun	0.135
1	85	Nagano	Ina-Shi	0.133
1	86	Saga	Arita-Cho Nishimatsura-Gun	0.133
1	87	Aichi	Toyota-Shi	0.130
1	88	Aichi	Owariasahi-Shi	0.130
1	89	Fukuoka	Miyama-Shi	0.128
1	90	Oita	Usa-Shi	0.127
1	91	Ishikawa	Nanao-Shi	0.127
1	92	Kanagawa	Aikawa-Machi Aiko-Gun	0.126
1	93	Saitama	Fukaya-Shi	0.126
1	94	Hiroshima	Fuchu-Shi	0.125
1	95	Miyagi	Zao-Machi Katta-Gun	0.125
1	96	Shizuoka	Omaezaki-Shi	0.122
1	97	Hokkaido	Iwamizawa-Shi	0.122
1	98	Mie	Matsusaka-Shi	0.121
1	99	Okayama	Takahashi-Shi	0.121
1	100	Fukuoka	Wakamatsu-Ku Kitakyushu-Shi	0.120
1	101	Gumma	Kiryu-Shi	0.120
1	102	Osaka	Takatsuki-Shi	0.119
1	103	Niigata	Sado-Shi	0.118

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	104	Kyoto	Maizuru-Shi	0.116
1	105	Okayama	Misaki-Cho Kume-Gun	0.116
1	106	Aichi	Hekinan-Shi	0.114
1	107	Fukuoka	Kasuya-Machi Kasuya-Gun	0.113
1	108	Yamanashi	Kai-Shi	0.112
1	109	Shiga	Yasu-Shi	0.112
1	110	Shimane	Hamada-Shi	0.112
1	111	Osaka	Takaishi-Shi	0.111
1	112	Saga	Takeo-Shi	0.111
1	113	Oita	Nakatsu-Shi	0.111
1	114	Hokkaido	Nayoro-Shi	0.110
1	115	Miyagi	Shibata-Machi Shibata-Gun	0.110
1	116	Saitama	Satte-Shi	0.109
1	117	Gifu	Ibigawa-Cho Ibi-Gun	0.109
1	118	Kagoshima	Akune-Shi	0.108
1	119	Aichi	Midori-Ku Nagoya-Shi	0.106
1	120	Hyogo	Kawanishi-Shi	0.106
1	121	Miyagi	Osato-Cho Kurokawa-Gun	0.105
1	122	Tokyo	Hamura-Shi	0.104
1	123	Osaka	Tadaoka-Cho Semboku-Gun	0.104
1	124	Hiroshima	Akitakata-Shi	0.104
1	125	Hyogo	Sayo-Cho Sayo-Gun	0.103
1	126	Saitama	Shiki-Shi	0.102
1	127	Fukushima	Aizuwakamatsu-Shi	0.101
1	128	Osaka	Kishiwada-Shi	0.098
1	129	Gumma	Tatebayashi-Shi	0.097
1	130	Oita	Oita-Shi	0.094
1	131	Hyogo	Tamba-Shi	0.094
1	132	Fukuoka	Kotake-Machi Kurate-Gun	0.093
1	133	Nagano	Saku-Shi	0.092
1	134	Gifu	Kakamigahara-Shi	0.092
1	135	Hyogo	Taka-Cho Taka-Gun	0.092
1	136	Ibaraki	Kitaibaraki-Shi	0.091
1	137	Fukuoka	Iizuka-Shi	0.091
1	138	Shimane	Yasugi-Shi	0.091
1	139	Kagawa	Ayagawa-Cho Ayauta-Gun	0.091
1	140	Chiba	Sodegaura-Shi	0.090
1	141	Tochigi	Utsunomiya-Shi	0.090
1	142	Hiroshima	Kure-Shi	0.090
1	143	Aichi	Kariya-Shi	0.089
1	144	Fukuoka	Nogata-Shi	0.089
1	145	Hiroshima	Naka-Ku Hiroshima-Shi	0.089
1	146	Osaka	Settsu-Shi	0.088
1	147	Ibaraki	Tsukubamirai-Shi	0.088
1	148	Fukui	Echizen-Shi	0.088
1	149	Aichi	Kota-Cho Nukata-Gun	0.085
1	150	Shiga	Aisho-Cho Echi-Gun	0.085
1	151	Ehime	Niihama-Shi	0.084
1	152	Ishikawa	Kahoku-Shi	0.083
1	153	Nagano	Miyada-Mura Kamiina-Gun	0.083
1	154	Shiga	Konan-Shi	0.082
1	155	Fukuoka	Nakama-Shi	0.081

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	156	Fukushima	Aizubange-Machi Kawanuma-Gun	0.080
1	157	Nara	Yamatokoriyama-Shi	0.080
1	158	Fukuoka	Moji-Ku Kitakyushu-Shi	0.080
1	159	Ishikawa	Kaga-Shi	0.078
1	160	Ibaraki	Hitachi-Shi	0.078
1	161	Shimane	Oda-Shi	0.078
1	162	Chiba	Tako-Machi Katori-Gun	0.076
1	163	Ibaraki	Ibaraki-Machi Higashiibaraki-Gun	0.075
1	164	Kagawa	Naoshima-Cho Kagawa-Gun	0.075
1	165	Kanagawa	Zama-Shi	0.075
1	166	Ibaraki	Goka-Machi Sashima-Gun	0.074
1	167	Aichi	Takahama-Shi	0.074
1	168	Aichi	Toyokawa-Shi	0.073
1	169	Aichi	Toyoake-Shi	0.073
1	170	Aichi	Kasugai-Shi	0.073
1	171	Aichi	Shinshiro-Shi	0.073
1	172	Kumamoto	Uto-Shi	0.072
1	173	Ibaraki	Kasumigaura-Shi	0.072
1	174	Fukushima	Motomiya-Shi	0.072
1	175	Tokyo	Higashikurume-Shi	0.072
1	176	Aichi	Komaki-Shi	0.071
1	177	Gifu	Nakatsugawa-Shi	0.071
1	178	Toyama	Takaoka-Shi	0.070
1	179	Hokkaido	Higashikawa-Cho Kamikawa-Gun	0.069
1	180	Aichi	Inazawa-Shi	0.069
1	181	Tochigi	Haga-Machi Haga-Gun	0.068
1	182	Okayama	Kurashiki-Shi	0.068
1	183	Osaka	Sennan-Shi	0.067
1	184	Shizuoka	Mori-Machi Shuchi-Gun	0.067
1	185	Kanagawa	Isogo-Ku Yokohama-Shi	0.067
1	186	Ibaraki	Toride-Shi	0.066
1	187	Fukui	Echizen-Cho Nyu-Gun	0.066
1	188	Fukushima	Yabuki-Machi Nishishirakawa-Gun	0.065
1	189	Yamanashi	Chuo-Shi	0.063
1	190	Kanagawa	Kanazawa-Ku Yokohama-Shi	0.063
1	191	Hokkaido	Fukagawa-Shi	0.063
1	192	Okayama	Kasaoka-Shi	0.063
1	193	Aichi	Handa-Shi	0.063
1	194	Nara	Gose-Shi	0.063
1	195	Hokkaido	Shibetsu-Shi	0.063
1	196	Oita	Usuki-Shi	0.063
1	197	Osaka	Izumisano-Shi	0.062
1	198	Kagawa	Zentsuji-Shi	0.062
1	199	Ibaraki	Tokai-Mura Naka-Gun	0.061
1	200	Shizuoka	Kakegawa-Shi	0.061
1	201	Yamaguchi	Hikari-Shi	0.061
1	202	Hyogo	Himeji-Shi	0.061
1	203	Saitama	Konosu-Shi	0.060
1	204	Chiba	Ichihara-Shi	0.060
1	205	Hyogo	Nishiwaki-Shi	0.059
1	206	Ibaraki	Chikusei-Shi	0.058
1	207	Hyogo	Harima-Cho Kako-Gun	0.058

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	208	Saitama	Yashio-Shi	0.058
1	209	Chiba	Narita-Shi	0.058
1	210	Chiba	Kujukuri-Machi Sambu-Gun	0.058
1	211	Kagoshima	Shibushi-Shi	0.058
1	212	Ibaraki	Yuki-Shi	0.057
1	213	Ibaraki	Kashima-Shi	0.057
1	214	Saga	Saga-Shi	0.056
1	215	Shiga	Hino-Cho Gamo-Gun	0.056
1	216	Tochigi	Moka-Shi	0.055
1	217	Shiga	Hupei-cho	0.054
1	218	Osaka	Yao-Shi	0.052
1	219	Saitama	Miyoshi-Machi Iruma-Gun	0.052
1	220	Hyogo	Itami-Shi	0.051
1	221	Fukui	Awara-Shi	0.050
1	222	Gifu	Kaizu-Shi	0.050
1	223	Shiga	Takashima-Shi	0.050
1	224	Niigata	Tagami-Machi Minamikambara-Gun	0.050
1	225	Akita	Akita-Shi	0.049
1	226	Gumma	Takasaki-Shi	0.049
1	227	Okayama	Bizen-Shi	0.049
1	228	Shizuoka	Fujieda-Shi	0.048
1	229	Niigata	Nagaoka-Shi	0.048
1	230	Hokkaido	Makubetsu-Cho Nakagawa-Gun	0.048
1	231	Nagasaki	Togitsu-Cho Nishisonogi-Gun	0.047
1	232	Kumamoto	Mashiki-Machi Kamimashiki-Gun	0.047
1	233	Fukuoka	Miyawaka-Shi	0.047
1	234	Ishikawa	Hakusan-Shi	0.047
1	235	Kyoto	Nagaokakyo-Shi	0.046
1	236	Saga	Kamimine-Cho Miyaki-Gun	0.046
1	237	Chiba	Togane-Shi	0.046
1	238	Fukushima	Soma-Shi	0.045
1	239	Saitama	Misato-Machi Kodama-Gun	0.045
1	240	Iwate	Ofunato-Shi	0.044
1	241	Tokushima	Naruto-Shi	0.044
1	242	Miyazaki	Miyazaki-Shi	0.043
1	243	Tokyo	Akiruno-Shi	0.043
1	244	Saitama	Matsubushi-Machi Kitakatsushika-Gun	0.043
1	245	Chiba	Funabashi-Shi	0.043
1	246	Tokyo	Mizuho-Machi Nishitama-Gun	0.043
1	247	Tokyo	Hachioji-Shi	0.043
1	248	Ishikawa	Shika-Machi Hakui-Gun	0.042
1	249	Osaka	Joto-Ku Osaka-Shi	0.041
1	250	Hyogo	Akashi-Shi	0.041
1	251	Toyama	Oyabe-Shi	0.041
1	252	Osaka	Kadoma-Shi	0.041
1	253	Saitama	Ageo-Shi	0.041
1	254	Kyoto	Ukyo-Ku Kyoto-Shi	0.041
1	255	Aichi	Nakagawa-Ku Nagoya-Shi	0.041
1	256	Kanagawa	Takatsu-Ku Kawasaki-Shi	0.040
1	257	Tottori	Kurayoshi-Shi	0.039
1	258	Hyogo	Amagasaki-Shi	0.039
1	259	Fukuoka	Buzen-Shi	0.038

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	260	Fukushima	Fukushima-Shi	0.038
1	261	Kagoshima	So-Shi	0.038
1	262	Chiba	Kamagaya-Shi	0.038
1	263	Fukui	Sabae-Shi	0.037
1	264	Niigata	Tsubame-Shi	0.037
1	265	Hokkaido	Obihiro-Shi	0.037
1	266	Yamanashi	Tsuru-Shi	0.037
1	267	Gumma	Fujioka-Shi	0.037
1	268	Ibaraki	Joso-Shi	0.036
1	269	Okayama	Setochi-Shi	0.036
1	270	Toyama	Himi-Shi	0.035
1	271	Kanagawa	Ayase-Shi	0.035
1	272	Kanagawa	Nakahara-Ku Kawasaki-Shi	0.035
1	273	Fukuoka	Munakata-Shi	0.033
1	274	Tokyo	Koto-Ku	0.033
1	275	Shizuoka	Fuji-Shi	0.033
1	276	Mie	Inabe-Shi	0.032
1	277	Tochigi	Oyama-Shi	0.032
1	278	Saitama	Otone-cho	0.031
1	279	Yamaguchi	Iwakuni-Shi	0.030
1	280	Aomori	Oirase-Cho Kamikita-Gun	0.029
1	281	Saitama	Tsurugashima-Shi	0.029
1	282	Gifu	Tarui-Cho Fuwa-Gun	0.028
1	283	Fukuoka	Kanda-Machi Miyako-Gun	0.028
1	284	Osaka	Tondabayashi-Shi	0.028
1	285	Mie	Tamaki-Cho Watarai-Gun	0.028
1	286	Tochigi	Fujioka-cho	0.028
1	287	Aichi	Obu-Shi	0.027
1	288	Aichi	Tsushima-Shi	0.027
1	289	Miyazaki	Kunitomi-Cho Higashimorokata-Gun	0.027
1	290	Hiroshima	Fukuyama-Shi	0.026
1	291	Mie	Iga-Shi	0.026
1	292	Gifu	Kani-Shi	0.026
1	293	Hokkaido	Ishikari-Shi	0.025
1	294	Shizuoka	Yaizu-Shi	0.025
1	295	Hiroshima	Minami-Ku Hiroshima-Shi	0.024
1	296	Aichi	Toyohashi-Shi	0.024
1	297	Ibaraki	Naka-Shi	0.023
1	298	Aichi	Tokai-Shi	0.023
1	299	Ibaraki	Kamisu-Shi	0.023
1	300	Shiga	Kusatsu-Shi	0.022
1	301	Chiba	Kisarazu-Shi	0.022
1	302	Fukushima	Kitakata-Shi	0.022
1	303	Gifu	Ono-Cho Ibi-Gun	0.021
1	304	Gifu	Ikeda-Cho Ibi-Gun	0.021
1	305	Yamanashi	Minobu-Cho Minamikoma-Gun	0.021
1	306	Chiba	Sosa-Shi	0.019
1	307	Aichi	Oguchi-Cho Niwa-Gun	0.019
1	308	Gifu	Gujo-Shi	0.019
1	309	Aichi	Ichinomiya-Shi	0.018
1	310	Hyogo	Fukusaki-Cho Kanzaki-Gun	0.018
1	311	Kagoshima	Kirishima-Shi	0.017

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	312	Nagano	Minowa-Machi Kamiina-Gun	0.017
1	313	Kyoto	Ayabe-Shi	0.017
1	314	Hiroshima	Mihara-Shi	0.017
1	315	Oita	Hita-Shi	0.016
1	316	Niigata	Myoko-Shi	0.016
1	317	Saitama	Yoshimi-Machi Hiki-Gun	0.015
1	318	Gifu	Seki-Shi	0.014
1	319	Hyogo	Kato-Shi	0.014
1	320	Saitama	Kawagoe-Shi	0.013
1	321	Tokushima	Tokushima-Shi	0.013
1	322	Hyogo	Takasago-Shi	0.013
1	323	Hokkaido	Ashibetsu-Shi	0.012
1	324	Mie	Kameyama-Shi	0.012
1	325	Hokkaido	Hakodate-Shi	0.012
1	326	Saitama	Shiraoka-Machi Minamisaitama-Gun	0.012
1	327	Hokkaido	Chitose-Shi	0.011
1	328	Shizuoka	Iwata-Shi	0.010
1	329	Kumamoto	Ueki-cho	0.010
1	330	Nara	Ikoma-Shi	0.009
1	331	Chiba	Yachiyo-Shi	0.009
1	332	Aichi	Minato-Ku Nagoya-Shi	0.008
1	333	Ibaraki	Shirosato-Machi Higashiibaraki-Gun	0.008
1	334	Yamanashi	Minamiarupusu-Shi	0.008
1	335	Fukuoka	Asakura-Shi	0.008
1	336	Osaka	Kaizuka-Shi	0.008
1	337	Shiga	Ritto-Shi	0.007
1	338	Kagawa	Marugame-Shi	0.007
1	339	Fukuoka	Shime-Machi Kasuya-Gun	0.007
1	340	Mie	Suzuka-Shi	0.006
1	341	Chiba	Kimitsu-Shi	0.006
1	342	Tokyo	Sumida-Ku	0.006
1	343	Hokkaido	Shiraoi-Cho Shiraoi-Gun	0.006
1	344	Hokkaido	Muroran-Shi	0.006
1	345	Chiba	Chiba	0.006
1	346	Kyoto	Joyo-Shi	0.005
1	347	Shiga	Nagahama-Shi	0.005
1	348	Hokkaido	Mikasa-Shi	0.004
1	349	Fukui	Fukui-Shi	0.003
1	350	Mie	Komono-Cho Mie-Gun	0.003
1	351	Nagano	Matsumoto-Shi	0.003
1	352	Miyagi	Iwanuma-Shi	0.003
1	353	Tokyo	Katsushika-Ku	0.000
1	354	Osaka	Sakai	0.000
1	355	Hokkaido	Kamiyuubetsu-cho	0.000
1	356	Niigata	Mitsuke-Shi	0.000
1	357	Ibaraki	Omitama-Shi	0.000
1	358	Hokkaido	Furano-Shi	-0.001
1	359	Fukuoka	Koga-Shi	-0.001
1	360	Mie	Kuwana-Shi	-0.001
1	361	Kanagawa	Sagamihara	-0.002
1	362	Shizuoka	Numazu-Shi	-0.002
1	363	Kanagawa	Hadano-Shi	-0.003

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	364	Nagano	Chino-Shi	-0.003
1	365	Shizuoka	Makinohara-Shi	-0.003
1	366	Hokkaido	Ebetsu-Shi	-0.004
1	367	Osaka	Suminoe-Ku Osaka-Shi	-0.004
1	368	Mie	Ise-Shi	-0.004
1	369	Saga	Kiyama-Cho Miyaki-Gun	-0.005
1	370	Yamanashi	Hokuto-Shi	-0.006
1	371	Chiba	Futtsu-Shi	-0.006
1	372	Yamagata	Higashine-Shi	-0.007
1	373	Saitama	Honjo-Shi	-0.007
1	374	Iwate	Miyako-Shi	-0.007
1	375	Saga	Miyaki-Cho Miyaki-Gun	-0.007
1	376	Hokkaido	Takikawa-Shi	-0.007
1	377	Nagasaki	Omura-Shi	-0.007
1	378	Nagasaki	Nagasaki-Shi	-0.008
1	379	Toyama	Tonami-Shi	-0.008
1	380	Aichi	Okazaki-Shi	-0.009
1	381	Kumamoto	Nagasu-Machi Tamana-Gun	-0.009
1	382	Ishikawa	Tsubata-Machi Kahoku-Gun	-0.009
1	383	Saitama	Higashimatsuyama-Shi	-0.010
1	384	Tochigi	Nasushiobara-Shi	-0.011
1	385	Fukuoka	Yukuhashi-Shi	-0.011
1	386	Kagoshima	Aira-cho	-0.011
1	387	Hokkaido	Higashi-Ku Sapporo-Shi	-0.012
1	388	Gifu	Yoro-Cho Yoro-Gun	-0.012
1	389	Ibaraki	Koga-Shi	-0.013
1	390	Fukuoka	Yahatahigashi-Ku Kitakyushu-Shi	-0.013
1	391	Fukushima	Hirata-Mura Ishikawa-Gun	-0.013
1	392	Hokkaido	Tomakomai-Shi	-0.013
1	393	Miyagi	Tagajo-Shi	-0.014
1	394	Chiba	Kashiwa-Shi	-0.014
1	395	Kanagawa	Samukawa-Machi Koza-Gun	-0.015
1	396	Nagano	Komoro-Shi	-0.015
1	397	Fukuoka	Hirokawa-Machi Yame-Gun	-0.015
1	398	Miyagi	Tome-Shi	-0.016
1	399	Fukushima	Kagamiishi-Machi Iwase-Gun	-0.017
1	400	Yamagata	Shonai-Machi Higashitagawa-Gun	-0.018
1	401	Okayama	Okayama	-0.018
1	402	Tochigi	Shimotsuke-Shi	-0.018
1	403	Yamaguchi	Tabuse-Cho Kumage-Gun	-0.018
1	404	Hiroshima	Higashihiroshima-Shi	-0.019
1	405	Hyogo	Nagata-Ku Kobe-Shi	-0.020
1	406	Toyama	Tateyama-Machi Nakaniikawa-Gun	-0.020
1	407	Hiroshima	Kitahiroshima-Cho Yamagata-Gun	-0.021
1	408	Ibaraki	Inashiki-Shi	-0.021
1	409	Hokkaido	Otaru-Shi	-0.021
1	410	Iwate	Morioka-Shi	-0.021
1	411	Hyogo	Toyoka-Shi	-0.022
1	412	Gifu	Gero-Shi	-0.022
1	413	Akita	Mitane-Cho Yamamoto-Gun	-0.022
1	414	Kanagawa	Isehara-Shi	-0.023
1	415	Shizuoka	Hamamatsu	-0.023

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	416	Kochi	Tosa-Shi	-0.023
1	417	Saitama	Saitama	-0.023
1	418	Gifu	Gifu-Shi	-0.023
1	419	Nagano	Takayama-Mura Kamitakai-Gun	-0.024
1	420	Ehime	Shikokuchuo-Shi	-0.024
1	421	Yamaguchi	Hirao-Cho Kumage-Gun	-0.024
1	422	Saga	Imari-Shi	-0.024
1	423	Gifu	Tajimi-Shi	-0.024
1	424	Shiga	Otsu-Shi	-0.025
1	425	Miyagi	Osaki-Shi	-0.025
1	426	Kagoshima	Satsumasendai-Shi	-0.025
1	427	Toyama	Toyama-Shi	-0.025
1	428	Gumma	Ota-Shi	-0.025
1	429	Toyama	Nanto-Shi	-0.026
1	430	Saitama	Sayama-Shi	-0.026
1	431	Aichi	Anjo-Shi	-0.026
1	432	Saitama	Toda-Shi	-0.027
1	433	Akita	Kitaakita-Shi	-0.027
1	434	Gifu	Mino-Shi	-0.029
1	435	Okayama	Mimasaka-Shi	-0.029
1	436	Shiga	Hikone-Shi	-0.030
1	437	Ehime	Iyo-Shi	-0.030
1	438	Okayama	Niimi-Shi	-0.030
1	439	Gifu	Motosu-Shi	-0.031
1	440	Miyagi	Sendai	-0.031
1	441	Tokushima	Anan-Shi	-0.032
1	442	Chiba	Choshi-Shi	-0.032
1	443	Aomori	Tsugaru-Shi	-0.033
1	444	Fukui	Tsuruga-Shi	-0.033
1	445	Kanagawa	Ebina-Shi	-0.033
1	446	Saitama	Kisai-cho	-0.033
1	447	Saitama	Gyoda-Shi	-0.034
1	448	Iwate	Oshu-Shi	-0.034
1	449	Miyazaki	Ebino-Shi	-0.035
1	450	Hokkaido	Nakasatsunai-Mura Kasai-Gun	-0.035
1	451	Aichi	Tobishima-Mura Ama-Gun	-0.035
1	452	Niigata	Niigata	-0.036
1	453	Aomori	Hirosaki-Shi	-0.036
1	454	Tokyo	Adachi-Ku	-0.036
1	455	Fukuoka	Higashi-Ku Fukuoka-Shi	-0.037
1	456	Kagawa	Tadotsu-Cho Nakatado-Gun	-0.037
1	457	Fukuoka	Ukiha-Shi	-0.037
1	458	Nagano	Azumino-Shi	-0.037
1	459	Kumamoto	Kikuchi-Shi	-0.038
1	460	Mie	Tsu-Shi	-0.038
1	461	Shiga	Koka-Shi	-0.038
1	462	Saitama	Kawaguchi-Shi	-0.038
1	463	Hokkaido	Rumoi-Shi	-0.039
1	464	Gifu	Yaotsu-Cho Kamo-Gun	-0.039
1	465	Niigata	Minamiuonuma-Shi	-0.040
1	466	Hokkaido	Asahikawa-Shi	-0.041
1	467	Shizuoka	Kikugawa-Shi	-0.041

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1	468	Aichi	Mizuho-Ku Nagoya-Shi	-0.041
1	469	Chiba	Shiroi-Shi	-0.042
1	470	Kumamoto	Yamaga-Shi	-0.042
1	471	Saitama	Soka-Shi	-0.042
1	472	Tochigi	Mibu-Machi Shimotsuga-Gun	-0.042
1	473	Shizuoka	Gotemba-Shi	-0.043
1	474	Kyoto	Minami-Ku Kyoto-Shi	-0.044
1	475	Saitama	Kitakawabe-cho	-0.044
1	476	Hyogo	Inami-Cho Kako-Gun	-0.044
1	477	Wakayama	Kinokawa-Shi	-0.044
1	478	Chiba	Matsudo-Shi	-0.044
1	479	Fukuoka	Okawa-Shi	-0.044
1	480	Kumamoto	Tamana-Shi	-0.045
1	481	Osaka	Higashiyodogawa-Ku Osaka-Shi	-0.045
1	482	Saitama	Kazo-Shi	-0.046
1	483	Ehime	Saijo-Shi	-0.046
1	484	Fukuoka	Mizumaki-Machi Onga-Gun	-0.046
1	485	Tokushima	Miyoshi-Shi	-0.046
1	486	Miyagi	Marumori-Machi Igu-Gun	-0.046
1	487	Wakayama	Wakayama-Shi	-0.046
1	488	Hyogo	Kakogawa-Shi	-0.047
1	489	Tokyo	Hinode-Machi Nishitama-Gun	-0.047
1	490	Kyoto	Fushimi-Ku Kyoto-Shi	-0.047
1	491	Saitama	Misato-Shi	-0.047
1	492	Hyogo	Hyogo-Ku Kobe-Shi	-0.047
1	493	Hokkaido	Kuriyama-Cho Yubari-Gun	-0.048
1	494	Fukui	Sakai-Shi	-0.048
1	495	Kanagawa	Midori-Ku Yokohama-Shi	-0.048
1	496	Saitama	Shobu-cho	-0.048
1	497	Chiba	Urayasu-Shi	-0.048
1	498	Hyogo	Nishinomiya-Shi	-0.048
1	499	Tochigi	Sakura-Shi	-0.049
1	500	Shimane	Gotsu-Shi	-0.049
1	501	Osaka	Konohana-Ku Osaka-Shi	-0.049
1	502	Ibaraki	Ishioka-Shi	-0.049
1	503	Chiba	Yokoshibahikari-Machi Sambu-Gun	-0.050
1	504	Hiroshima	Hatsukaichi-Shi	-0.050
1	505	Nagasaki	Isahaya-Shi	-0.050
1	506	Fukushima	Shirakawa-Shi	-0.050
1	507	Fukuoka	Sue-Machi Kasuya-Gun	-0.051
1	508	Kumamoto	Ozu-Machi Kikuchi-Gun	-0.051
1	509	Kanagawa	Atsugi-Shi	-0.052
1	510	Gifu	Ena-Shi	-0.052
1	511	Hokkaido	Kitahiroshima-Shi	-0.052
1	512	Tochigi	Nikko-Shi	-0.052
1	513	Chiba	Sakura-Shi	-0.053
1	514	Shizuoka	Fukuroi-Shi	-0.053
1	515	Hyogo	Ichikawa-Cho Kanzaki-Gun	-0.054
1	516	Miyazaki	Miyakonojo-Shi	-0.054
1	517	Osaka	Daito-Shi	-0.055
1	518	Tottori	Tottori-Shi	-0.055
1	519	Saitama	Fujimi-Shi	-0.055

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	520	Fukuoka	Tagawa-Shi	-0.056
1	521	Fukushima	Minamisoma-Shi	-0.056
1	522	Shiga	Higashiomi-Shi	-0.057
1	523	Okayama	Maniwa-Shi	-0.057
1	524	Gifu	Takayama-Shi	-0.058
1	525	Aichi	Seto-Shi	-0.058
1	526	Saitama	Yoshikawa-Shi	-0.058
1	527	Niigata	Shibata-Shi	-0.059
1	528	Aomori	Aomori-Shi	-0.059
1	529	Niigata	Yahiko-Mura Nishikambara-Gun	-0.060
1	530	Aichi	Minami-Ku Nagoya-Shi	-0.060
1	531	Ehime	Matsuyama-Shi	-0.060
1	532	Fukushima	Date-Shi	-0.060
1	533	Kyoto	Kizugawa-Shi	-0.060
1	534	Kyoto	Kameoka-Shi	-0.061
1	535	Saitama	Hanyu-Shi	-0.061
1	536	Ibaraki	Yachiyo-Machi Yuki-Gun	-0.062
1	537	Tokyo	Shinagawa-Ku	-0.062
1	538	Hyogo	Miki-Shi	-0.063
1	539	Saitama	Hidaka-Shi	-0.063
1	540	Osaka	Nishiyodogawa-Ku Osaka-Shi	-0.064
1	541	Kanagawa	Hiratsuka-Shi	-0.064
1	542	Kumamoto	Yatsushiro-Shi	-0.064
1	543	Ehime	Seiyo-Shi	-0.064
1	544	Osaka	Higashiosaka-Shi	-0.064
1	545	Ibaraki	Kasama-Shi	-0.064
1	546	Fukuoka	Kurate-Machi Kurate-Gun	-0.065
1	547	Osaka	Miyakojima-Ku Osaka-Shi	-0.065
1	548	Toyama	Imizu-Shi	-0.065
1	549	Osaka	Hirakata-Shi	-0.065
1	550	Yamagata	Kahoku-Cho Nishimurayama-Gun	-0.065
1	551	Aichi	Inuyama-Shi	-0.065
1	552	Yamagata	Nagai-Shi	-0.066
1	553	Kanagawa	Saiwai-Ku Kawasaki-Shi	-0.066
1	554	Yamaguchi	Hofu-Shi	-0.066
1	555	Yamaguchi	Ube-Shi	-0.066
1	556	Hyogo	Sasayama-Shi	-0.066
1	557	Chiba	Noda-Shi	-0.067
1	558	Yamaguchi	Yamaguchi-Shi	-0.067
1	559	Kanagawa	Odawara-Shi	-0.067
1	560	Saga	Yoshinogari-Cho Kanzaki-Gun	-0.068
1	561	Kagoshima	Kagoshima-Shi	-0.068
1	562	Gifu	Minokamo-Shi	-0.068
1	563	Niigata	Itoigawa-Shi	-0.068
1	564	Shizuoka	Shizuoka	-0.069
1	565	Miyazaki	Nobeoka-Shi	-0.070
1	566	Okinawa	Urasoe-Shi	-0.073
1	567	Toyama	Uozu-Shi	-0.073
1	568	Fukushima	Tamura-Shi	-0.073
1	569	Niigata	Kashiwazaki-Shi	-0.073
1	570	Chiba	Sammu-Shi	-0.073
1	571	Shizuoka	Oyama-Cho Sunto-Gun	-0.074

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1	572	Nara	Nara-Shi	-0.074
1	573	Hokkaido	Bibai-Shi	-0.075
1	574	Osaka	Izumiotsu-Shi	-0.075
1	575	Ishikawa	Kanazawa-Shi	-0.075
1	576	Toyama	Kurobe-Shi	-0.076
1	577	Aichi	Higashi-Ku Nagoya-Shi	-0.076
1	578	Nagano	Shiojiri-Shi	-0.076
1	579	Gifu	Mitake-Cho Kani-Gun	-0.077
1	580	Ibaraki	Bando-Shi	-0.077
1	581	Fukushima	Nihommatsu-Shi	-0.077
1	582	Tochigi	Ashikaga-Shi	-0.077
1	583	Okayama	Tamano-Shi	-0.077
1	584	Shizuoka	Fujinomiya-Shi	-0.078
1	585	Kagawa	Takamatsu-Shi	-0.078
1	586	Kanagawa	Kawasaki-Ku Kawasaki-Shi	-0.078
1	587	Saitama	Kamikawa-Machi Kodama-Gun	-0.078
1	588	Yamanashi	Kofu-Shi	-0.078
1	589	Osaka	Hirano-Ku Osaka-Shi	-0.078
1	590	Osaka	Asahi-Ku Osaka-Shi	-0.079
1	591	Kanagawa	Yamato-Shi	-0.079
1	592	Nagano	Tomi-Shi	-0.080
1	593	Ishikawa	Nomi-Shi	-0.080
1	594	Okayama	Soja-Shi	-0.080
1	595	Osaka	Matsubara-Shi	-0.081
1	596	Gumma	Oizumi-Machi Ora-Gun	-0.081
1	597	Yamanashi	Nirasaki-Shi	-0.082
1	598	Hyogo	Ono-Shi	-0.082
1	599	Yamagata	Takahata-Machi Higashiokitama-Gun	-0.082
1	600	Aomori	Hachinohe-Shi	-0.083
1	601	Gifu	Toki-Shi	-0.083
1	602	Tochigi	Kanuma-Shi	-0.084
1	603	Tokyo	Arakawa-Ku	-0.085
1	604	Fukushima	Iwaki-Shi	-0.085
1	605	Shizuoka	Yoshida-Cho Haibara-Gun	-0.086
1	606	Fukushima	Tanagura-Machi Higashishirakawa-Gun	-0.086
1	607	Saitama	Ogawa-Machi Hiki-Gun	-0.086
1	608	Gifu	Ogaki-Shi	-0.086
1	609	Toyama	Namerikawa-Shi	-0.087
1	610	Tokushima	Awa-Shi	-0.087
1	611	Gumma	Chiyoda-Machi Ora-Gun	-0.087
1	612	Kagawa	Mitoyo-Shi	-0.087
1	613	Kagoshima	Yusui-Cho Aira-Gun	-0.088
1	614	Kumamoto	Kumamoto-Shi	-0.088
1	615	Shiga	Maibara-Shi	-0.088
1	616	Tokyo	Ota-Ku	-0.088
1	617	Aichi	Oharu-Cho Ama-Gun	-0.089
1	618	Ibaraki	Hitachinaka-Shi	-0.089
1	619	Niigata	Seiro-Machi Kitakambara-Gun	-0.090
1	620	Niigata	Murakami-Shi	-0.090
1	621	Aichi	Gamagori-Shi	-0.090
1	622	Shizuoka	Shimada-Shi	-0.091
1	623	Saitama	Iruma-Shi	-0.092

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1	624	Saitama	Sakado-Shi	-0.093
1	625	Saitama	Kamisato-Machi Kodama-Gun	-0.093
1	626	Mie	Meiwa-Cho Taki-Gun	-0.093
1	627	Hiroshima	Asakita-Ku Hiroshima-Shi	-0.095
1	628	Hiroshima	Asaminami-Ku Hiroshima-Shi	-0.095
1	629	Aichi	Chiryu-Shi	-0.095
1	630	Iwate	Kitakami-Shi	-0.096
1	631	Kanagawa	Fujisawa-Shi	-0.096
1	632	Fukuoka	Shingu-Machi Kasuya-Gun	-0.096
1	633	Gumma	Maebashi-Shi	-0.096
1	634	Miyagi	Shikama-Cho Kami-Gun	-0.097
1	635	Yamaguchi	Shunan-Shi	-0.097
1	636	Ibaraki	Hitachiomiya-Shi	-0.097
1	637	Nagano	Ueda-Shi	-0.097
1	638	Saga	Kanzaki-Shi	-0.097
1	639	Osaka	Tsurumi-Ku Osaka-Shi	-0.102
1	640	Niigata	Tokamachi-Shi	-0.104
1	641	Ibaraki	Tsukuba-Shi	-0.104
1	642	Gumma	Ora-Machi Ora-Gun	-0.105
1	643	Hiroshima	Takehara-Shi	-0.105
1	644	Okayama	Tsuyama-Shi	-0.105
1	645	Fukuoka	Keisen-Machi Kaho-Gun	-0.105
1	646	Saitama	Kawajima-Machi Hiki-Gun	-0.105
1	647	Fukuoka	Tobata-Ku Kitakyushu-Shi	-0.105
1	648	Tokyo	Ome-Shi	-0.105
1	649	Saitama	Kitamoto-Shi	-0.106
1	650	Tochigi	Shioya-Machi Shioya-Gun	-0.106
1	651	Ibaraki	Shimotsuma-Shi	-0.106
1	652	Fukuoka	Kama-Shi	-0.107
1	653	Nara	Tenri-Shi	-0.107
1	654	Fukuoka	Chikushino-Shi	-0.107
1	655	Tokyo	Meguro-Ku	-0.108
1	656	Ehime	Yawatahama-Shi	-0.108
1	657	Akita	Noshiro-Shi	-0.108
1	658	Kyoto	Yamashina-Ku Kyoto-Shi	-0.108
1	659	Hokkaido	Mombetsu-Shi	-0.110
1	660	Yamaguchi	Mine-Shi	-0.110
1	661	Tochigi	Nogi-Machi Shimotsuga-Gun	-0.111
1	662	Hokkaido	Eniwa-Shi	-0.111
1	663	Miyagi	Ishinomaki-Shi	-0.111
1	664	Kyoto	Nantan-Shi	-0.112
1	665	Iwate	Ichinoseki-Shi	-0.113
1	666	Miyagi	Murata-Machi Shibata-Gun	-0.114
1	667	Nagano	Iida-Shi	-0.114
1	668	Fukuoka	Omuta-Shi	-0.115
1	669	Yamaguchi	Shimonoseki-Shi	-0.115
1	670	Aichi	Kitanagoya-Shi	-0.115
1	671	Hyogo	Asago-Shi	-0.115
1	672	Aichi	Kiyosu-Shi	-0.116
1	673	Nagano	Chikuma-Shi	-0.116
1	674	Mie	Yokkaichi-Shi	-0.118
1	675	Chiba	Katori-Shi	-0.119

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1	676	Saitama	Okegawa-Shi	-0.121
1	677	Hyogo	Higashinada-Ku Kobe-Shi	-0.122
1	678	Kanagawa	Kamakura-Shi	-0.122
1	679	Yamagata	Yonezawa-Shi	-0.122
1	680	Chiba	Ichikawa-Shi	-0.124
1	681	Kanagawa	Seya-Ku Yokohama-Shi	-0.124
1	682	Saitama	Kumagaya-Shi	-0.124
1	683	Hokkaido	Nishi-Ku Sapporo-Shi	-0.125
1	684	Tokyo	Edogawa-Ku	-0.125
1	685	Kyoto	Kyotango-Shi	-0.125
1	686	Fukushima	Koriyama-Shi	-0.126
1	687	Gumma	Shibukawa-Shi	-0.126
1	688	Ibaraki	Tsuchiura-Shi	-0.127
1	689	Fukuoka	Kokuraminami-Ku Kitakyushu-Shi	-0.127
1	690	Tochigi	Otawara-Shi	-0.127
1	691	Kagoshima	Kanoya-Shi	-0.128
1	692	Gumma	Isesaki-Shi	-0.128
1	693	Fukushima	Nishigo-Mura Nishishirakawa-Gun	-0.129
1	694	Mie	Nabari-Shi	-0.129
1	695	Miyagi	Kurihara-Shi	-0.129
1	696	Osaka	Ibaraki-Shi	-0.130
1	697	Nagano	Suzaka-Shi	-0.131
1	698	Tokyo	Nerima-Ku	-0.133
1	699	Ibaraki	Ami-Machi Inashiki-Gun	-0.134
1	700	Tokyo	Itabashi-Ku	-0.135
1	701	Osaka	Fujiidera-Shi	-0.135
1	702	Ibaraki	Takahagi-Shi	-0.136
1	703	Osaka	Kashiwara-Shi	-0.137
1	704	Osaka	Taisho-Ku Osaka-Shi	-0.137
1	705	Kanagawa	Naka-Ku Yokohama-Shi	-0.137
1	706	Fukuoka	Kokurakita-Ku Kitakyushu-Shi	-0.137
1	707	Fukuoka	Chikugo-Shi	-0.138
1	708	Kagawa	Kanonji-Shi	-0.138
1	709	Osaka	Ikuno-Ku Osaka-Shi	-0.138
1	710	Fukuoka	Oki-Machi Mizuma-Gun	-0.139
1	711	Osaka	Toyonaka-Shi	-0.140
1	712	Fukushima	Ono-Machi Tamura-Gun	-0.140
1	713	Tokyo	Kita-Ku	-0.140
1	714	Niigata	Joetsu-Shi	-0.141
1	715	Tokushima	Komatsushima-Shi	-0.141
1	716	Saitama	Kuki-Shi	-0.142
1	717	Saga	Tosu-Shi	-0.142
1	718	Miyazaki	Nichinan-Shi	-0.143
1	719	Aomori	Rokunohe-Machi Kamikita-Gun	-0.143
1	720	Yamagata	Yamagata-Shi	-0.144
1	721	Hokkaido	Hidaka-Cho Saru-Gun	-0.144
1	722	Saitama	Tokigawa-Machi Hiki-Gun	-0.145
1	723	Hyogo	Shiso-Shi	-0.145
1	724	Fukuoka	Chikuzen-Machi Asakura-Gun	-0.145
1	725	Shiga	Moriyama-Shi	-0.145
1	726	Kyoto	Fukuchiyama-Shi	-0.146
1	727	Gifu	Ampachi-Cho Ampachi-Gun	-0.146

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1	728	Hyogo	Sanda-Shi	-0.146
1	729	Tochigi	Sano-Shi	-0.146
1	730	Hyogo	Tatsuno-Shi	-0.146
1	731	Tochigi	Nishikata-Machi Kamitsuga-Gun	-0.148
1	732	Nara	Oji-Cho Kitakatsuragi-Gun	-0.148
1	733	Kumamoto	Uki-Shi	-0.149
1	734	Gifu	Hashima-Shi	-0.150
1	735	Shimane	Izumo-Shi	-0.152
1	736	Kanagawa	Kohoku-Ku Yokohama-Shi	-0.153
1	737	Gifu	Kawabe-Cho Kamo-Gun	-0.154
1	738	Tottori	Hokuei-Cho Tohaku-Gun	-0.154
1	739	Gifu	Mizuho-Shi	-0.155
1	740	Okayama	Shoo-Cho Katsuta-Gun	-0.155
1	741	Saitama	Ranzan-Machi Hiki-Gun	-0.156
1	742	Osaka	Neyagawa-Shi	-0.156
1	743	Ishikawa	Komatsu-Shi	-0.157
1	744	Hyogo	Ako-Shi	-0.159
1	745	Chiba	Mobara-Shi	-0.160
1	746	Gifu	Godo-Cho Ampachi-Gun	-0.160
1	747	Kanagawa	Totsuka-Ku Yokohama-Shi	-0.160
1	748	Shimane	Unnan-Shi	-0.163
1	749	Gumma	Numata-Shi	-0.164
1	750	Chiba	Nagareyama-Shi	-0.164
1	751	Aichi	Naka-Ku Nagoya-Shi	-0.165
1	752	Hokkaido	Noboribetsu-Shi	-0.166
1	753	Hokkaido	Kitami-Shi	-0.168
1	754	Osaka	Yodogawa-Ku Osaka-Shi	-0.170
1	755	Tottori	Yonago-Shi	-0.173
1	756	Kanagawa	Tsurumi-Ku Yokohama-Shi	-0.174
1	757	Tokyo	Chofu-Shi	-0.174
1	758	Saitama	Tokorozawa-Shi	-0.175
1	759	Akita	Daisen-Shi	-0.176
1	760	Fukushima	Futaba-Machi Futaba-Gun	-0.177
1	761	Iwate	Kamaishi-Shi	-0.177
1	762	Aichi	Kita-Ku Nagoya-Shi	-0.179
1	763	Nagano	Suwa-Shi	-0.181
1	764	Yamagata	Murayama-Shi	-0.181
1	765	Gifu	Yamagata-Shi	-0.182
1	766	Hiroshima	Onomichi-Shi	-0.182
1	767	Nagano	Okaya-Shi	-0.182
1	768	Ibaraki	Sakai-Machi Sashima-Gun	-0.185
1	769	Mie	Toin-Cho Inabe-Gun	-0.187
1	770	Yamaguchi	Kudamatsu-Shi	-0.189
1	771	Kanagawa	Chigasaki-Shi	-0.189
1	772	Kanagawa	Yokosuka-Shi	-0.191
1	773	Ehime	Toon-Shi	-0.193
1	774	Aichi	Yatomi-Shi	-0.193
1	775	Nara	Gojo-Shi	-0.193
1	776	Niigata	Uonuma-Shi	-0.195
1	777	Miyagi	Misato-Machi Toda-Gun	-0.196
1	778	Akita	Yuzawa-Shi	-0.196
1	779	Aichi	Togo-Cho Aichi-Gun	-0.197

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	780	Iwate	Hachimantai-Shi	-0.197
1	781	Ibaraki	Ushiku-Shi	-0.199
1	782	Nagano	Nagano-Shi	-0.203
1	783	Osaka	Moriguchi-Shi	-0.203
1	784	Hokkaido	Shinhidaka-Cho Hidaka-Gun	-0.207
1	785	Chiba	Asahi-Shi	-0.208
1	786	Miyagi	Ohira-Mura Kurokawa-Gun	-0.208
1	787	Fukuoka	Umi-Machi Kasuya-Gun	-0.209
1	788	Yamanashi	Ichikawamisato-Cho Nishiyatsushiro-Gun	-0.210
1	789	Saitama	Yokoze-Machi Chichibu-Gun	-0.210
1	790	Hokkaido	Akabira-Shi	-0.211
1	791	Shiga	Ryuo-Cho Gamo-Gun	-0.212
1	792	Okayama	Ibara-Shi	-0.214
1	793	Iwate	Hanamaki-Shi	-0.214
1	794	Saitama	Namegawa-Machi Hiki-Gun	-0.215
1	795	Fukui	Wakasa-Cho Mikatakaminaka-Gun	-0.216
1	796	Shimane	Matsue-Shi	-0.218
1	797	Tochigi	Yaita-Shi	-0.222
1	798	Ehime	Imabari-Shi	-0.222
1	799	Fukuoka	Miyako-Machi Miyako-Gun	-0.222
1	800	Saitama	Fujimino-Shi	-0.224
1	801	Shiga	Omihachiman-Shi	-0.224
1	802	Hiroshima	Saeki-Ku Hiroshima-Shi	-0.224
1	803	Kagawa	Miki-Cho Kita-Gun	-0.225
1	804	Nagano	Komagane-Shi	-0.227
1	805	Fukui	Takahama-Cho Oi-Gun	-0.230
1	806	Oita	Bungoono-Shi	-0.231
1	807	Hyogo	Minamiawaji-Shi	-0.231
1	808	Hiroshima	Shobara-Shi	-0.236
1	809	Miyagi	Shiroishi-Shi	-0.241
1	810	Gifu	Hida-Shi	-0.244
1	811	Yamagata	Nanyo-Shi	-0.246
1	812	Kanagawa	Nakai-Machi Ashigarakami-Gun	-0.250
1	813	Tokyo	Fuchu-Shi	-0.254
1	814	Fukuoka	Yame-Shi	-0.254
1	815	Osaka	Nishinari-Ku Osaka-Shi	-0.256
1	816	Hiroshima	Miyoshi-Shi	-0.256
1	817	Gumma	Tamamura-Machi Sawa-Gun	-0.257
1	818	Gumma	Annaka-Shi	-0.259
1	819	Osaka	Minato-Ku Osaka-Shi	-0.259
1	820	Okayama	Akaiwa-Shi	-0.260
1	821	Kanagawa	Kaisei-Machi Ashigarakami-Gun	-0.261
1	822	Kagawa	Higashikagawa-Shi	-0.262
1	823	Kyoto	Ujitawara-Cho Tsuzuki-Gun	-0.264
1	824	Yamagata	Tendo-Shi	-0.267
1	825	Gumma	Meiwa-Machi Ora-Gun	-0.267
1	826	Tochigi	Nakagawa-Machi Nasu-Gun	-0.268
1	827	Nagano	Tatsuno-Machi Kamiina-Gun	-0.269
1	828	Yamagata	Tsuruoka-Shi	-0.272
1	829	Kagawa	Manno-Cho Nakatado-Gun	-0.276
1	830	Hyogo	Awaji-Shi	-0.285
1	831	Chiba	Isumi-Shi	-0.289

Industry	Ranking	State	City/Ward/Town/Village	Location effect
1	832	Fukuoka	Kawara-Machi Tagawa-Gun	-0.290
1	833	Saitama	Sugito-Machi Kitakatsushika-Gun	-0.291
1	834	Yamagata	Shinjo-Shi	-0.295
1	835	Ibaraki	Mito-Shi	-0.297
1	836	Shizuoka	Shimizu-Cho Sunto-Gun	-0.297
1	837	Kochi	Kochi-Shi	-0.300
1	838	Osaka	Katano-Shi	-0.303
1	839	Nagasaki	Kawatana-Cho Higashisonogi-Gun	-0.305
1	840	Hokkaido	Shiranuka-Cho Shiranuka-Gun	-0.305
1	841	Hokkaido	Higashikagura-Cho Kamikawa-Gun	-0.305
1	842	Miyazaki	Hyuga-Shi	-0.306
1	843	Osaka	Habikino-Shi	-0.310
1	844	Saitama	Niiza-Shi	-0.317
1	845	Hyogo	Kamikawa-Cho Kanzaki-Gun	-0.318
1	846	Shimane	Masuda-Shi	-0.320
1	847	Kyoto	Yawata-Shi	-0.324
1	848	Fukuoka	Yahatanishi-Ku Kitakyushu-Shi	-0.338
1	849	Nara	Kashihara-Shi	-0.341
1	850	Tottori	Sakaiminato-Shi	-0.362
1	851	Shimane	Okuizumo-Cho Nita-Gun	-0.363
1	852	Hokkaido	Abira-Cho Yufutsu-Gun	-0.364
1	853	Aichi	Moriyama-Ku Nagoya-Shi	-0.365
1	854	Akita	Semboku-Shi	-0.376
1	855	Shizuoka	Izunokuni-Shi	-0.377
1	856	Iwate	Iwaizumi-Cho Shimohei-Gun	-0.381
1	857	Hokkaido	Engaru-Cho Mombetsu-Gun	-0.386
1	858	Fukuoka	Sasaguri-Machi Kasuya-Gun	-0.387
1	859	Gumma	Tomioka-Shi	-0.393
1	860	Kyoto	Kyotamba-Cho Funai-Gun	-0.394
1	861	Kochi	Nankoku-Shi	-0.394
1	862	Nagasaki	Hasami-Cho Higashisonogi-Gun	-0.402
1	863	Hokkaido	Shiroishi-Ku Sapporo-Shi	-0.403
1	864	Yamagata	Sakata-Shi	-0.408
1	865	Miyagi	Yamamoto-Cho Watari-Gun	-0.422
1	866	Nagano	Nagiso-Machi Kiso-Gun	-0.426
1	867	Fukuoka	Kurume-Shi	-0.427
1	868	Okinawa	Nishihara-Cho Nakagami-Gun	-0.439
1	869	Nara	Ikaruga-Cho Ikoma-Gun	-0.466
1	870	Tokyo	Setagaya-Ku	-0.475
1	871	Okinawa	Naha-Shi	-0.487
1	872	Yamaguchi	Hagi-Shi	-0.495
1	873	Wakayama	Hirogawa-Cho Arida-Gun	-0.508
1	874	Hyogo	Takarazuka-Shi	-0.514
1	875	Ehime	Uchiko-Cho Kita-Gun	-0.517
1	876	Kumamoto	Nishiki-Machi Kuma-Gun	-0.522
1	877	Yamanashi	Yamanashi-Shi	-0.534
1	878	Niigata	Aga-Machi Higashikambara-Gun	-0.542
1	879	Okinawa	Okinawa-Shi	-0.590
1	880	Saitama	Chichibu-Shi	-0.590
1	881	Gumma	Minakami-Machi Tone-Gun	-0.608
1	882	Kumamoto	Asagiri-Cho Kuma-Gun	-0.625
1	883	Nagasaki	Sasebo-Shi	-0.685

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1	884	Akita	Yurihonjo-Shi	-0.718
1	885	Hokkaido	Minami-Ku Sapporo-Shi	-0.789
2	1	Hyogo	Miki-Shi	1.001
2	2	Aichi	Inuyama-Shi	0.866
2	3	Shizuoka	Yaizu-Shi	0.693
2	4	Tokyo	Mitaka-Shi	0.596
2	5	Saitama	Hanyu-Shi	0.503
2	6	Shiga	Yasu-Shi	0.489
2	7	Shizuoka	Gotemba-Shi	0.475
2	8	Toyama	Namerikawa-Shi	0.443
2	9	Toyama	Kamiichi-Machi Nakaniikawa-Gun	0.427
2	10	Yamagata	Sakata-Shi	0.413
2	11	Saitama	Yashio-Shi	0.406
2	12	Ibaraki	Tsukuba-Shi	0.405
2	13	Saitama	Kumagaya-Shi	0.390
2	14	Saitama	Kasukabe-Shi	0.389
2	15	Tokyo	Sumida-Ku	0.379
2	16	Hyogo	Sanda-Shi	0.373
2	17	Kanagawa	Kamakura-Shi	0.359
2	18	Shiga	Taga-Cho Inukami-Gun	0.356
2	19	Ishikawa	Nomi-Shi	0.340
2	20	Tochigi	Mibu-Machi Shimotsuga-Gun	0.339
2	21	Aichi	Miyoshi-cho	0.339
2	22	Hyogo	Ono-Shi	0.335
2	23	Kanagawa	Chigasaki-Shi	0.319
2	24	Kanagawa	Sagamihara	0.314
2	25	Shizuoka	Yoshida-Cho Haibara-Gun	0.310
2	26	Osaka	Kita-Ku Osaka-Shi	0.308
2	27	Fukuoka	Iizuka-Shi	0.306
2	28	Osaka	Takatsuki-Shi	0.297
2	29	Okayama	Setochi-Shi	0.293
2	30	Kanagawa	Kanazawa-Ku Yokohama-Shi	0.283
2	31	Shizuoka	Nagaizumi-Cho Sunto-Gun	0.282
2	32	Yamagata	Tendo-Shi	0.265
2	33	Yamaguchi	Waki-Cho Kuga-Gun	0.256
2	34	Tokyo	Shinagawa-Ku	0.251
2	35	Shiga	Moriyama-Shi	0.236
2	36	Shizuoka	Fukuroi-Shi	0.235
2	37	Okayama	Shoo-Cho Katsuta-Gun	0.227
2	38	Shizuoka	Fujinomiya-Shi	0.221
2	39	Fukushima	Okuma-Machi Futaba-Gun	0.221
2	40	Gumma	Ota-Shi	0.209
2	41	Tochigi	Otawara-Shi	0.208
2	42	Chiba	Funabashi-Shi	0.204
2	43	Fukushima	Iwaki-Shi	0.202
2	44	Gumma	Takasaki-Shi	0.191
2	45	Miyazaki	Nobeoka-Shi	0.190
2	46	Ehime	Saijo-Shi	0.184
2	47	Hyogo	Fukusaki-Cho Kanzaki-Gun	0.173
2	48	Kanagawa	Totsuka-Ku Yokohama-Shi	0.167
2	49	Ibaraki	Kashima-Shi	0.166
2	50	Aichi	Toyota-Shi	0.164

Industry	Ranking	State	City/Ward/Town/Village	Location effect
2	51	Hyogo	Akashi-Shi	0.161
2	52	Kanagawa	Minamiashigara-Shi	0.155
2	53	Saitama	Namegawa-Machi Hiki-Gun	0.154
2	54	Shizuoka	Fuji-Shi	0.151
2	55	Yamaguchi	Iwakuni-Shi	0.149
2	56	Okayama	Misaki-Cho Kume-Gun	0.145
2	57	Saitama	Honjo-Shi	0.144
2	58	Akita	Akita-Shi	0.140
2	59	Saitama	Saitama	0.134
2	60	Fukuoka	Moji-Ku Kitakyushu-Shi	0.131
2	61	Kyoto	Kumiyama-Cho Kuse-Gun	0.124
2	62	Yamaguchi	Ube-Shi	0.122
2	63	Osaka	Takaishi-Shi	0.114
2	64	Saitama	Kuki-Shi	0.114
2	65	Tokyo	Hachioji-Shi	0.112
2	66	Miyagi	Sendai	0.110
2	67	Gifu	Gifu-Shi	0.109
2	68	Osaka	Izumiotsu-Shi	0.107
2	69	Niigata	Niigata	0.106
2	70	Tokyo	Katsushika-Ku	0.099
2	71	Saitama	Koshigaya-Shi	0.097
2	72	Chiba	Sakura-Shi	0.096
2	73	Saitama	Fujimino-Shi	0.088
2	74	Toyama	Takaoka-Shi	0.084
2	75	Saitama	Kawagoe-Shi	0.083
2	76	Kagawa	Marugame-Shi	0.080
2	77	Tokyo	Ota-Ku	0.078
2	78	Aichi	Chita-Shi	0.073
2	79	Tokyo	Higashimurayama-Shi	0.073
2	80	Nagano	Nagano-Shi	0.073
2	81	Shiga	Koka-Shi	0.071
2	82	Okayama	Okayama	0.070
2	83	Yamaguchi	Shunan-Shi	0.066
2	84	Chiba	Chiba	0.062
2	85	Fukuoka	Yahatanishi-Ku Kitakyushu-Shi	0.061
2	86	Ibaraki	Takahagi-Shi	0.059
2	87	Ibaraki	Ami-Machi Inashiki-Gun	0.051
2	88	Kanagawa	Odawara-Shi	0.043
2	89	Shizuoka	Iwata-Shi	0.041
2	90	Tochigi	Shimotsuke-Shi	0.038
2	91	Niigata	Joetsu-Shi	0.037
2	92	Hokkaido	Kushiro-Shi	0.037
2	93	Kanagawa	Kawasaki-Ku Kawasaki-Shi	0.035
2	94	Shiga	Kusatsu-Shi	0.035
2	95	Hyogo	Tatsuno-Shi	0.033
2	96	Osaka	Ibaraki-Shi	0.032
2	97	Tokyo	Kita-Ku	0.030
2	98	Yamaguchi	Shimonoseki-Shi	0.030
2	99	Osaka	Tsurumi-Ku Osaka-Shi	0.029
2	100	Aichi	Okazaki-Shi	0.025
2	101	Gumma	Shibukawa-Shi	0.023
2	102	Ibaraki	Sakuragawa-Shi	0.020

Industry	Ranking	State	City/Ward/Town/Village	Location effect
2	103	Shiga	Hino-Cho Gamo-Gun	0.020
2	104	Aichi	Komaki-Shi	0.017
2	105	Aichi	Inazawa-Shi	0.016
2	106	Osaka	Neyagawa-Shi	0.016
2	107	Chiba	Yachiyo-Shi	0.015
2	108	Tochigi	Utsunomiya-Shi	0.012
2	109	Chiba	Noda-Shi	0.012
2	110	Fukui	Fukui-Shi	0.011
2	111	Kanagawa	Ayase-Shi	0.009
2	112	Chiba	Ichihara-Shi	0.000
2	113	Yamagata	Yonezawa-Shi	-0.001
2	114	Kyoto	Fukuchiyama-Shi	-0.006
2	115	Kanagawa	Hiratsuka-Shi	-0.006
2	116	Gifu	Hida-Shi	-0.007
2	117	Toyama	Toyama-Shi	-0.007
2	118	Osaka	Nishiyodogawa-Ku Osaka-Shi	-0.008
2	119	Kanagawa	Aikawa-Machi Aiko-Gun	-0.009
2	120	Hokkaido	Muroran-Shi	-0.010
2	121	Tokyo	Edogawa-Ku	-0.010
2	122	Fukuoka	Tobata-Ku Kitakyushu-Shi	-0.013
2	123	Fukuoka	Kokurakita-Ku Kitakyushu-Shi	-0.013
2	124	Ibaraki	Chikusei-Shi	-0.014
2	125	Saitama	Soka-Shi	-0.015
2	126	Shizuoka	Kakegawa-Shi	-0.017
2	127	Aichi	Kariya-Shi	-0.017
2	128	Fukushima	Koriyama-Shi	-0.021
2	129	Aichi	Minato-Ku Nagoya-Shi	-0.024
2	130	Fukuoka	Hirokawa-Machi Yame-Gun	-0.024
2	131	Hyogo	Itami-Shi	-0.027
2	132	Oita	Oita-Shi	-0.028
2	133	Osaka	Hirakata-Shi	-0.029
2	134	Wakayama	Arida-Shi	-0.030
2	135	Osaka	Joto-Ku Osaka-Shi	-0.032
2	136	Ibaraki	Ryugasaki-Shi	-0.033
2	137	Mie	Iga-Shi	-0.033
2	138	Osaka	Toyonaka-Shi	-0.034
2	139	Osaka	Konohana-Ku Osaka-Shi	-0.034
2	140	Miyagi	Ishinomaki-Shi	-0.036
2	141	Osaka	Kishiwada-Shi	-0.039
2	142	Wakayama	Wakayama-Shi	-0.039
2	143	Chiba	Togane-Shi	-0.039
2	144	Hyogo	Ako-Shi	-0.042
2	145	Aichi	Taketoyo-Cho Chita-Gun	-0.048
2	146	Mie	Yokkaichi-Shi	-0.049
2	147	Saitama	Shobu-cho	-0.054
2	148	Shizuoka	Shizuoka	-0.056
2	149	Saitama	Asaka-Shi	-0.059
2	150	Osaka	Yao-Shi	-0.061
2	151	Osaka	Sakai	-0.062
2	152	Gumma	Fujioka-Shi	-0.063
2	153	Ibaraki	Kamisu-Shi	-0.063
2	154	Hyogo	Himeji-Shi	-0.064

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2	155	Tokyo	Ome-Shi	-0.065
2	156	Fukuoka	Omuta-Shi	-0.068
2	157	Fukui	Tsuruga-Shi	-0.070
2	158	Aichi	Minami-Ku Nagoya-Shi	-0.071
2	159	Tokyo	Adachi-Ku	-0.074
2	160	Ibaraki	Kitaibaraki-Shi	-0.081
2	161	Aichi	Chiryu-Shi	-0.081
2	162	Aichi	Kasugai-Shi	-0.086
2	163	Osaka	Higashiosaka-Shi	-0.087
2	164	Saitama	Kawaguchi-Shi	-0.091
2	165	Shiga	Konan-Shi	-0.091
2	166	Aichi	Toyokawa-Shi	-0.094
2	167	Shizuoka	Kikugawa-Shi	-0.096
2	168	Gumma	Isesaki-Shi	-0.099
2	169	Tokushima	Tokushima-Shi	-0.100
2	170	Ehime	Matsuyama-Shi	-0.103
2	171	Osaka	Kashiwara-Shi	-0.104
2	172	Hyogo	Harima-Cho Kako-Gun	-0.104
2	173	Hyogo	Tarumi-Ku Kobe-Shi	-0.105
2	174	Okayama	Tamano-Shi	-0.108
2	175	Tokyo	Koto-Ku	-0.115
2	176	Gumma	Annaka-Shi	-0.116
2	177	Hyogo	Amagasaki-Shi	-0.117
2	178	Chiba	Sodegaura-Shi	-0.117
2	179	Okayama	Kurashiki-Shi	-0.117
2	180	Kanagawa	Samukawa-Machi Koza-Gun	-0.118
2	181	Tokyo	Itabashi-Ku	-0.126
2	182	Hiroshima	Fukuyama-Shi	-0.130
2	183	Fukushima	Soma-Shi	-0.133
2	184	Ibaraki	Koga-Shi	-0.133
2	185	Kagawa	Sakaide-Shi	-0.133
2	186	Fukuoka	Wakamatsu-Ku Kitakyushu-Shi	-0.137
2	187	Ibaraki	Joso-Shi	-0.138
2	188	Ishikawa	Hakusan-Shi	-0.139
2	189	Tokushima	Anan-Shi	-0.141
2	190	Hyogo	Kakogawa-Shi	-0.143
2	191	Wakayama	Kainan-Shi	-0.147
2	192	Hiroshima	Mihara-Shi	-0.147
2	193	Saitama	Tokorozawa-Shi	-0.150
2	194	Fukushima	Hirono-Machi Futaba-Gun	-0.151
2	195	Okayama	Wake-Cho Wake-Gun	-0.151
2	196	Kanagawa	Tsurumi-Ku Yokohama-Shi	-0.151
2	197	Fukushima	Sukagawa-Shi	-0.152
2	198	Hiroshima	Higashihiroshima-Shi	-0.154
2	199	Chiba	Ichikawa-Shi	-0.157
2	200	Hyogo	Kato-Shi	-0.161
2	201	Hokkaido	Tomakomai-Shi	-0.166
2	202	Yamaguchi	Sanyoonoda-Shi	-0.168
2	203	Kyoto	Fushimi-Ku Kyoto-Shi	-0.170
2	204	Aomori	Hachinohe-Shi	-0.177
2	205	Hokkaido	Kitahiroshima-Shi	-0.180
2	206	Fukui	Sakai-Shi	-0.193

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2	207	Aichi	Handa-Shi	-0.194
2	208	Shizuoka	Hamamatsu	-0.195
2	209	Saga	Tosu-Shi	-0.203
2	210	Tokushima	Naruto-Shi	-0.211
2	211	Okayama	Bizen-Shi	-0.212
2	212	Hyogo	Takasago-Shi	-0.215
2	213	Miyazaki	Hyuga-Shi	-0.219
2	214	Osaka	Settsu-Shi	-0.222
2	215	Aichi	Tokai-Shi	-0.229
2	216	Hiroshima	Otake-Shi	-0.230
2	217	Niigata	Tainai-Shi	-0.235
2	218	Okayama	Kasaoka-Shi	-0.238
2	219	Osaka	Taisho-Ku Osaka-Shi	-0.240
2	220	Osaka	Suita-Shi	-0.240
2	221	Yamaguchi	Hofu-Shi	-0.261
2	222	Chiba	Mobara-Shi	-0.265
2	223	Gifu	Nakatsugawa-Shi	-0.268
2	224	Kanagawa	Fujisawa-Shi	-0.272
2	225	Ibaraki	Goka-Machi Sashima-Gun	-0.274
2	226	Mie	Matsusaka-Shi	-0.277
2	227	Osaka	Yodogawa-Ku Osaka-Shi	-0.285
2	228	Gifu	Ogaki-Shi	-0.286
2	229	Toyama	Imizu-Shi	-0.295
2	230	Kagawa	Takamatsu-Shi	-0.296
2	231	Kanagawa	Isehara-Shi	-0.303
2	232	Shiga	Higashiomi-Shi	-0.308
2	233	Mie	Suzuka-Shi	-0.311
2	234	Chiba	Narita-Shi	-0.312
2	235	Fukushima	Tamura-Shi	-0.320
2	236	Tokyo	Setagaya-Ku	-0.322
2	237	Tokyo	Hamura-Shi	-0.323
2	238	Ehime	Niihama-Shi	-0.323
2	239	Fukushima	Aizuwakamatsu-Shi	-0.324
2	240	Osaka	Hirano-Ku Osaka-Shi	-0.327
2	241	Kyoto	Minami-Ku Kyoto-Shi	-0.336
2	242	Saitama	Kazo-Shi	-0.341
2	243	Osaka	Asahi-Ku Osaka-Shi	-0.354
2	244	Kumamoto	Minamata-Shi	-0.367
2	245	Kumamoto	Uto-Shi	-0.372
2	246	Shizuoka	Numazu-Shi	-0.376
2	247	Kyoto	Uji-Shi	-0.383
2	248	Kanagawa	Zama-Shi	-0.424
2	249	Aichi	Kitanagoya-Shi	-0.444
2	250	Kanagawa	Hadano-Shi	-0.445
2	251	Chiba	Sammu-Shi	-0.491
2	252	Saitama	Fukaya-Shi	-0.493
2	253	Osaka	Ikuno-Ku Osaka-Shi	-0.495
2	254	Osaka	Higashiyodogawa-Ku Osaka-Shi	-0.510
2	255	Aichi	Toyohashi-Shi	-0.516
2	256	Osaka	Higashinari-Ku Osaka-Shi	-0.523
2	257	Nara	Gose-Shi	-0.569
2	258	Saitama	Konosu-Shi	-0.594

Industry	Ranking	State	City/Ward/Town/Village	Location effect
2	259	Gumma	Tatebayashi-Shi	-0.597
2	260	Aichi	Seto-Shi	-0.605
2	261	Hyogo	Nishinomiya-Shi	-0.620
2	262	Saitama	Gyoda-Shi	-0.648
2	263	Kanagawa	Yokosuka-Shi	-0.677
2	264	Saitama	Sayama-Shi	-0.679
2	265	Osaka	Nishinari-Ku Osaka-Shi	-0.682
2	266	Shizuoka	Fujieda-Shi	-0.695
2	267	Fukui	Sabae-Shi	-0.729
2	268	Kanagawa	Takatsu-Ku Kawasaki-Shi	-0.739
2	269	Hyogo	Tamba-Shi	-0.773
2	270	Saitama	Kamikawa-Machi Kodama-Gun	-0.816
2	271	Iwate	Kitakami-Shi	-1.135
2	272	Kyoto	Muko-Shi	-1.266
3	1	Miyazaki	Nobeoka-Shi	1.071
3	2	Miyagi	Kakuda-Shi	0.865
3	3	Shizuoka	Yoshida-Cho Haibara-Gun	0.741
3	4	Fukushima	Nishigo-Mura Nishishirakawa-Gun	0.712
3	5	Fukushima	Motomiya-Shi	0.701
3	6	Ibaraki	Sakuragawa-Shi	0.669
3	7	Saitama	Sakado-Shi	0.661
3	8	Shizuoka	Makinohara-Shi	0.615
3	9	Aichi	Tsushima-Shi	0.596
3	10	Shizuoka	Fukuroi-Shi	0.571
3	11	Tokyo	Adachi-Ku	0.556
3	12	Tochigi	Nasukarasuyama-Shi	0.507
3	13	Tokyo	Higashimurayama-Shi	0.498
3	14	Fukui	Fukui-Shi	0.486
3	15	Ibaraki	Yuki-Shi	0.471
3	16	Yamagata	Tendo-Shi	0.462
3	17	Fukui	Sabae-Shi	0.462
3	18	Osaka	Izumiotsu-Shi	0.459
3	19	Saitama	Niiza-Shi	0.457
3	20	Ishikawa	Nonoichi-Machi Ishikawa-Gun	0.443
3	21	Yamagata	Yamagata-Shi	0.435
3	22	Saitama	Kasukabe-Shi	0.433
3	23	Hyogo	Hyogo-Ku Kobe-Shi	0.433
3	24	Nagano	Matsukawa-Machi Shimoina-Gun	0.426
3	25	Fukui	Awara-Shi	0.419
3	26	Saga	Kamimine-Cho Miyaki-Gun	0.419
3	27	Ibaraki	Koga-Shi	0.410
3	28	Okayama	Akaiwa-Shi	0.410
3	29	Saitama	Satte-Shi	0.406
3	30	Miyazaki	Saito-Shi	0.391
3	31	Kanagawa	Kanazawa-Ku Yokohama-Shi	0.379
3	32	Miyagi	Osaki-Shi	0.370
3	33	Ishikawa	Tsubata-Machi Kahoku-Gun	0.355
3	34	Chiba	Mobara-Shi	0.354
3	35	Shimane	Matsue-Shi	0.347
3	36	Chiba	Ichihara-Shi	0.345
3	37	Iwate	Oshu-Shi	0.343
3	38	Hiroshima	Kitahiroshima-Cho Yamagata-Gun	0.340

Industry	Ranking	State	City/Ward/Town/Village	Location effect
3	39	Hokkaido	Otaru-Shi	0.339
3	40	Mie	Komono-Cho Mie-Gun	0.334
3	41	Gifu	Nakatsugawa-Shi	0.328
3	42	Tochigi	Nikko-Shi	0.325
3	43	Ibaraki	Kashima-Shi	0.324
3	44	Shiga	Higashiomi-Shi	0.316
3	45	Tokyo	Higashiyamato-Shi	0.313
3	46	Tokyo	Koto-Ku	0.311
3	47	Fukuoka	Nakama-Shi	0.310
3	48	Kyoto	Shimogyo-Ku Kyoto-Shi	0.305
3	49	Saitama	Fukaya-Shi	0.298
3	50	Aichi	Okazaki-Shi	0.291
3	51	Shiga	Hupei-cho	0.288
3	52	Hyogo	Takasago-Shi	0.285
3	53	Iwate	Hanamaki-Shi	0.279
3	54	Hiroshima	Hatsukaichi-Shi	0.279
3	55	Saga	Tosu-Shi	0.277
3	56	Fukuoka	Kurume-Shi	0.273
3	57	Chiba	Tomisato-Shi	0.273
3	58	Hyogo	Sasayama-Shi	0.273
3	59	Yamanashi	Tsuru-Shi	0.271
3	60	Niigata	Ojiya-Shi	0.268
3	61	Saitama	Warabi-Shi	0.268
3	62	Kyoto	Fukuchiyama-Shi	0.266
3	63	Aichi	Yatomi-Shi	0.265
3	64	Saitama	Gyoda-Shi	0.264
3	65	Chiba	Narita-Shi	0.263
3	66	Tokyo	Akishima-Shi	0.260
3	67	Gifu	Ena-Shi	0.255
3	68	Fukushima	Fukushima-Shi	0.255
3	69	Fukuoka	Moji-Ku Kitakyushu-Shi	0.251
3	70	Tokyo	Musashimurayama-Shi	0.247
3	71	Oita	Nakatsu-Shi	0.244
3	72	Chiba	Kimitsu-Shi	0.243
3	73	Shiga	Takatsuki-cho	0.243
3	74	Aichi	Nakagawa-Ku Nagoya-Shi	0.240
3	75	Saitama	Shiraoka-Machi Minamisaitama-Gun	0.238
3	76	Miyagi	Murata-Machi Shibata-Gun	0.238
3	77	Yamagata	Kahoku-Cho Nishimurayama-Gun	0.238
3	78	Gumma	Tatebayashi-Shi	0.238
3	79	Kyoto	Ujitawara-Cho Tsuzuki-Gun	0.236
3	80	Ishikawa	Kanazawa-Shi	0.235
3	81	Saitama	Asaka-Shi	0.235
3	82	Kyoto	Kyotango-Shi	0.232
3	83	Nagano	Azumino-Shi	0.231
3	84	Kanagawa	Ayase-Shi	0.229
3	85	Niigata	Sanjo-Shi	0.227
3	86	Hyogo	Akashi-Shi	0.227
3	87	Saitama	Misato-Shi	0.223
3	88	Aichi	Kasugai-Shi	0.218
3	89	Aichi	Toyohashi-Shi	0.217
3	90	Aichi	Kota-Cho Nukata-Gun	0.216

Industry	Ranking	State	City/Ward/Town/Village	Location effect
3	91	Saitama	Tokigawa-Machi Hiki-Gun	0.213
3	92	Saga	Kiyama-Cho Miyaki-Gun	0.211
3	93	Hyogo	Ono-Shi	0.211
3	94	Nagano	Iida-Shi	0.210
3	95	Yamanashi	Kofu-Shi	0.210
3	96	Saitama	Chichibu-Shi	0.209
3	97	Fukushima	Miharu-Machi Tamura-Gun	0.206
3	98	Kyoto	Uji-Shi	0.205
3	99	Shizuoka	Yaizu-Shi	0.203
3	100	Kagawa	Higashikagawa-Shi	0.202
3	101	Hyogo	Higashinada-Ku Kobe-Shi	0.199
3	102	Mie	Tsu-Shi	0.199
3	103	Gumma	Kiryu-Shi	0.198
3	104	Fukushima	Yabuki-Machi Nishishirakawa-Gun	0.197
3	105	Ishikawa	Hakusan-Shi	0.195
3	106	Shizuoka	Numazu-Shi	0.195
3	107	Osaka	Higashinari-Ku Osaka-Shi	0.193
3	108	Aichi	Tempaku-Ku Nagoya-Shi	0.192
3	109	Tokyo	Shinagawa-Ku	0.191
3	110	Kanagawa	Yokosuka-Shi	0.190
3	111	Fukuoka	Yahatanishi-Ku Kitakyushu-Shi	0.188
3	112	Yamagata	Nagai-Shi	0.186
3	113	Saitama	Kawagoe-Shi	0.185
3	114	Tokyo	Ota-Ku	0.181
3	115	Saitama	Ranzan-Machi Hiki-Gun	0.178
3	116	Tochigi	Moka-Shi	0.178
3	117	Mie	Nabari-Shi	0.176
3	118	Okayama	Bizen-Shi	0.176
3	119	Hyogo	Sumoto-Shi	0.176
3	120	Chiba	Kisarazu-Shi	0.174
3	121	Tottori	Tottori-Shi	0.170
3	122	Hyogo	Tatsuno-Shi	0.170
3	123	Yamaguchi	Shunan-Shi	0.169
3	124	Shizuoka	Kakegawa-Shi	0.168
3	125	Aichi	Atsuta-Ku Nagoya-Shi	0.168
3	126	Kyoto	Joyo-Shi	0.168
3	127	Saitama	Hanno-Shi	0.165
3	128	Niigata	Nagaoka-Shi	0.162
3	129	Osaka	Yao-Shi	0.161
3	130	Aichi	Toyota-Shi	0.160
3	131	Kanagawa	Saiwai-Ku Kawasaki-Shi	0.160
3	132	Hyogo	Kakogawa-Shi	0.159
3	133	Hiroshima	Mihara-Shi	0.156
3	134	Shizuoka	Fujinomiya-Shi	0.155
3	135	Saitama	Yorii-Machi Osato-Gun	0.154
3	136	Aichi	Handa-Shi	0.153
3	137	Tokyo	Fussa-Shi	0.153
3	138	Chiba	Futtsu-Shi	0.153
3	139	Nara	Yamatokoriyama-Shi	0.150
3	140	Tokyo	Itabashi-Ku	0.149
3	141	Kanagawa	Minami-Ku Yokohama-Shi	0.146
3	142	Shiga	Moriyama-Shi	0.145

Industry	Ranking	State	City/Ward/Town/Village	Location effect
3	143	Niigata	Niigata	0.145
3	144	Okayama	Satosho-Cho Asakuchi-Gun	0.145
3	145	Saitama	Kazo-Shi	0.144
3	146	Kanagawa	Chigasaki-Shi	0.143
3	147	Tokyo	Katsushika-Ku	0.143
3	148	Aichi	Moriyama-Ku Nagoya-Shi	0.142
3	149	Yamanashi	Kai-Shi	0.141
3	150	Shizuoka	Gotemba-Shi	0.140
3	151	Hiroshima	Kure-Shi	0.140
3	152	Gifu	Gujo-Shi	0.138
3	153	Nara	Ikoma-Shi	0.137
3	154	Fukushima	Koriyama-Shi	0.134
3	155	Fukuoka	Hirokawa-Machi Yame-Gun	0.130
3	156	Kyoto	Nakagyo-Ku Kyoto-Shi	0.128
3	157	Nagano	Komoro-Shi	0.127
3	158	Kumamoto	Nishihara-Mura Aso-Gun	0.127
3	159	Yamagata	Nanyo-Shi	0.125
3	160	Shizuoka	Fujieda-Shi	0.125
3	161	Nagano	Matsumoto-Shi	0.124
3	162	Fukuoka	Tobata-Ku Kitakyushu-Shi	0.118
3	163	Aichi	Komaki-Shi	0.116
3	164	Saitama	Kawaguchi-Shi	0.112
3	165	Shiga	Kusatsu-Shi	0.111
3	166	Gumma	Ora-Machi Ora-Gun	0.110
3	167	Fukuoka	Yanagawa-Shi	0.109
3	168	Osaka	Nishiyodogawa-Ku Osaka-Shi	0.105
3	169	Shizuoka	Shimizu-Cho Sunto-Gun	0.105
3	170	Hyogo	Harima-Cho Kako-Gun	0.104
3	171	Osaka	Neyagawa-Shi	0.103
3	172	Kanagawa	Atsugi-Shi	0.103
3	173	Osaka	Toyonaka-Shi	0.099
3	174	Hiroshima	Higashihiroshima-Shi	0.098
3	175	Akita	Kazuno-Shi	0.098
3	176	Tokyo	Nerima-Ku	0.098
3	177	Mie	Toin-Cho Inabe-Gun	0.098
3	178	Chiba	Yachiyo-Shi	0.098
3	179	Hyogo	Takarazuka-Shi	0.097
3	180	Nagano	Saku-Shi	0.097
3	181	Saitama	Sayama-Shi	0.095
3	182	Tokyo	Mizuho-Machi Nishitama-Gun	0.094
3	183	Nagano	Ueda-Shi	0.093
3	184	Nara	Tawaramoto-Cho Shiki-Gun	0.090
3	185	Aichi	Shinshiro-Shi	0.090
3	186	Osaka	Suita-Shi	0.083
3	187	Osaka	Kawachinagano-Shi	0.081
3	188	Aichi	Takahama-Shi	0.081
3	189	Yamagata	Higashine-Shi	0.081
3	190	Fukushima	Kitakata-Shi	0.079
3	191	Nagano	Minowa-Machi Kamiina-Gun	0.078
3	192	Hiroshima	Shobara-Shi	0.078
3	193	Fukuoka	Kokuraminami-Ku Kitakyushu-Shi	0.077
3	194	Yamagata	Sagae-Shi	0.077

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3	195	Osaka	Kishiwada-Shi	0.076
3	196	Fukushima	Nihommatsu-Shi	0.075
3	197	Yamagata	Murayama-Shi	0.075
3	198	Osaka	Hirakata-Shi	0.074
3	199	Saitama	Koshigaya-Shi	0.073
3	200	Tochigi	Ashikaga-Shi	0.071
3	201	Kagoshima	Satsumasendai-Shi	0.071
3	202	Ibaraki	Kitaibaraki-Shi	0.070
3	203	Kanagawa	Kamakura-Shi	0.069
3	204	Nagano	Minamiminowa-Mura Kamiina-Gun	0.069
3	205	Saitama	Honjo-Shi	0.069
3	206	Ibaraki	Ami-Machi Inashiki-Gun	0.069
3	207	Hyogo	Toyoka-Shi	0.068
3	208	Tochigi	Utsunomiya-Shi	0.066
3	209	Aichi	Midori-Ku Nagoya-Shi	0.063
3	210	Mie	Tamaki-Cho Watarai-Gun	0.063
3	211	Gifu	Ogaki-Shi	0.062
3	212	Akita	Odate-Shi	0.061
3	213	Mie	Iga-Shi	0.061
3	214	Yamanashi	Showa-Cho Nakakoma-Gun	0.061
3	215	Iwate	Kitakami-Shi	0.061
3	216	Gifu	Mino-Shi	0.060
3	217	Niigata	Minamiuonuma-Shi	0.060
3	218	Gifu	Tarui-Cho Fuwa-Gun	0.059
3	219	Shiga	Takashima-Shi	0.058
3	220	Osaka	Izumi-Shi	0.055
3	221	Hyogo	Himeji-Shi	0.054
3	222	Hyogo	Sanda-Shi	0.052
3	223	Hyogo	Kato-Shi	0.052
3	224	Yamagata	Yonezawa-Shi	0.052
3	225	Miyazaki	Miyazaki-Shi	0.051
3	226	Hiroshima	Aki-Ku Hiroshima-Shi	0.049
3	227	Ibaraki	Toride-Shi	0.048
3	228	Ehime	Matsuyama-Shi	0.048
3	229	Toyama	Nanto-Shi	0.048
3	230	Gumma	Maebashi-Shi	0.043
3	231	Saitama	Hanyu-Shi	0.043
3	232	Nagano	Komagane-Shi	0.042
3	233	Aichi	Hekinan-Shi	0.039
3	234	Saitama	Iruma-Shi	0.039
3	235	Ibaraki	Shimotsuma-Shi	0.038
3	236	Shiga	Hikone-Shi	0.037
3	237	Hiroshima	Fuchu-Shi	0.036
3	238	Kanagawa	Totsuka-Ku Yokohama-Shi	0.036
3	239	Miyagi	Ohira-Mura Kurokawa-Gun	0.036
3	240	Fukuoka	Yahatahigashi-Ku Kitakyushu-Shi	0.034
3	241	Hyogo	Nishinomiya-Shi	0.034
3	242	Nagasaki	Sasebo-Shi	0.034
3	243	Saitama	Hidaka-Shi	0.034
3	244	Hyogo	Nagata-Ku Kobe-Shi	0.032
3	245	Shizuoka	Iwata-Shi	0.031
3	246	Osaka	Kaizuka-Shi	0.031

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3	247	Wakayama	Hidakagawa-Cho Hidaka-Gun	0.030
3	248	Shiga	Maibara-Shi	0.030
3	249	Kanagawa	Kohoku-Ku Yokohama-Shi	0.029
3	250	Mie	Kuwana-Shi	0.028
3	251	Hyogo	Kasai-Shi	0.028
3	252	Shizuoka	Shizuoka	0.027
3	253	Ishikawa	Komatsu-Shi	0.026
3	254	Shimane	Unnan-Shi	0.026
3	255	Kanagawa	Minamiashigara-Shi	0.022
3	256	Aichi	Toyokawa-Shi	0.019
3	257	Osaka	Ibaraki-Shi	0.018
3	258	Saitama	Ageo-Shi	0.018
3	259	Aichi	Anjo-Shi	0.018
3	260	Wakayama	Kinokawa-Shi	0.018
3	261	Ibaraki	Bando-Shi	0.017
3	262	Kyoto	Muko-Shi	0.017
3	263	Aichi	Ichinomiya-Shi	0.016
3	264	Wakayama	Wakayama-Shi	0.016
3	265	Kumamoto	Nankan-Machi Tamana-Gun	0.015
3	266	Yamanashi	Hokuto-Shi	0.014
3	267	Tochigi	Nasushiobara-Shi	0.013
3	268	Tokyo	Sumida-Ku	0.012
3	269	Shizuoka	Fuji-Shi	0.012
3	270	Okayama	Shoo-Cho Katsuta-Gun	0.011
3	271	Osaka	Minato-Ku Osaka-Shi	0.010
3	272	Tokyo	Kita-Ku	0.010
3	273	Kanagawa	Nakahara-Ku Kawasaki-Shi	0.010
3	274	Kyoto	Nagaokakyo-Shi	0.009
3	275	Kyoto	Ayabe-Shi	0.009
3	276	Osaka	Tondabayashi-Shi	0.008
3	277	Aichi	Mizuho-Ku Nagoya-Shi	0.008
3	278	Ehime	Imabari-Shi	0.008
3	279	Tochigi	Sano-Shi	0.006
3	280	Chiba	Matsudo-Shi	0.004
3	281	Gumma	Oizumi-Machi Ora-Gun	0.004
3	282	Ibaraki	Tsukubamirai-Shi	0.003
3	283	Kyoto	Kameoka-Shi	0.002
3	284	Tochigi	Kanuma-Shi	0.002
3	285	Tokyo	Hachioji-Shi	0.001
3	286	Shiga	Yasu-Shi	0.000
3	287	Osaka	Sakai	0.000
3	288	Aichi	Kitanagoya-Shi	0.000
3	289	Gifu	Godo-Cho Ampachi-Gun	0.000
3	290	Kyoto	Minami-Ku Kyoto-Shi	-0.001
3	291	Shiga	Ryuo-Cho Gamo-Gun	-0.001
3	292	Tokyo	Edogawa-Ku	-0.001
3	293	Akita	Daisen-Shi	-0.002
3	294	Oita	Oita-Shi	-0.003
3	295	Aichi	Kariya-Shi	-0.003
3	296	Hiroshima	Onomichi-Shi	-0.004
3	297	Osaka	Daito-Shi	-0.008
3	298	Saitama	Kitamoto-Shi	-0.009

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3	299	Saitama	Yashio-Shi	-0.009
3	300	Mie	Ise-Shi	-0.009
3	301	Fukuoka	Shime-Machi Kasuya-Gun	-0.010
3	302	Chiba	Kashiwa-Shi	-0.012
3	303	Ibaraki	Chikusei-Shi	-0.013
3	304	Fukushima	Iwaki-Shi	-0.014
3	305	Hyogo	Itami-Shi	-0.014
3	306	Hyogo	Amagasaki-Shi	-0.014
3	307	Yamaguchi	Kudamatsu-Shi	-0.014
3	308	Kanagawa	Tama-Ku Kawasaki-Shi	-0.014
3	309	Kanagawa	Tsurumi-Ku Yokohama-Shi	-0.015
3	310	Shizuoka	Izunokuni-Shi	-0.016
3	311	Saitama	Kumagaya-Shi	-0.016
3	312	Kagoshima	Kirishima-Shi	-0.016
3	313	Saitama	Konosu-Shi	-0.017
3	314	Ehime	Toon-Shi	-0.020
3	315	Shizuoka	Omaezaki-Shi	-0.020
3	316	Okayama	Nagi-Cho Katsuta-Gun	-0.020
3	317	Hyogo	Tarumi-Ku Kobe-Shi	-0.022
3	318	Yamaguchi	Sanyoonoda-Shi	-0.022
3	319	Shiga	Ritto-Shi	-0.023
3	320	Shizuoka	Hamamatsu	-0.023
3	321	Chiba	Sammu-Shi	-0.025
3	322	Osaka	Tsurumi-Ku Osaka-Shi	-0.026
3	323	Ibaraki	Mito-Shi	-0.026
3	324	Yamanashi	Minamiarupusu-Shi	-0.027
3	325	Kanagawa	Kawasaki-Ku Kawasaki-Shi	-0.030
3	326	Hiroshima	Fukuyama-Shi	-0.030
3	327	Shimane	Higashiizumo-Cho Yatsuka-Gun	-0.031
3	328	Shiga	Otsu-Shi	-0.032
3	329	Aichi	Minami-Ku Nagoya-Shi	-0.032
3	330	Osaka	Suminoe-Ku Osaka-Shi	-0.032
3	331	Fukuoka	Hakata-Ku Fukuoka-Shi	-0.033
3	332	Nagano	Suwa-Shi	-0.035
3	333	Ibaraki	Joso-Shi	-0.035
3	334	Fukushima	Minamisoma-Shi	-0.036
3	335	Okayama	Tsuyama-Shi	-0.036
3	336	Fukuoka	Iizuka-Shi	-0.038
3	337	Tokyo	Hino-Shi	-0.040
3	338	Fukuoka	Koga-Shi	-0.041
3	339	Fukuoka	Yukuhashi-Shi	-0.042
3	340	Tokyo	Toshima-Ku	-0.042
3	341	Aichi	Obu-Shi	-0.043
3	342	Osaka	Fukushima-Ku Osaka-Shi	-0.045
3	343	Nagasaki	Nagasaki-Shi	-0.045
3	344	Yamanashi	Fuefuki-Shi	-0.048
3	345	Kanagawa	Sagamihara	-0.049
3	346	Ibaraki	Hitachi-Shi	-0.050
3	347	Chiba	Sakura-Shi	-0.052
3	348	Ibaraki	Kasama-Shi	-0.052
3	349	Osaka	Hirano-Ku Osaka-Shi	-0.053
3	350	Saitama	Shobu-cho	-0.053

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3	351	Ibaraki	Ryugasaki-Shi	-0.054
3	352	Osaka	Kadoma-Shi	-0.055
3	353	Akita	Akita-Shi	-0.055
3	354	Shizuoka	Nagaizumi-Cho Sunto-Gun	-0.057
3	355	Osaka	Higashiyodogawa-Ku Osaka-Shi	-0.058
3	356	Hokkaido	Chitose-Shi	-0.060
3	357	Osaka	Shijonawate-Shi	-0.061
3	358	Saitama	Ina-Machi Kitaadachi-Gun	-0.062
3	359	Osaka	Settsu-Shi	-0.063
3	360	Nagano	Suzaka-Shi	-0.066
3	361	Niigata	Uonuma-Shi	-0.066
3	362	Fukui	Sakai-Shi	-0.067
3	363	Kanagawa	Zama-Shi	-0.067
3	364	Ibaraki	Hitachinaka-Shi	-0.068
3	365	Kanagawa	Hiratsuka-Shi	-0.068
3	366	Mie	Yokkaichi-Shi	-0.070
3	367	Saitama	Soka-Shi	-0.071
3	368	Osaka	Yodogawa-Ku Osaka-Shi	-0.071
3	369	Okayama	Kurashiki-Shi	-0.072
3	370	Kanagawa	Ebina-Shi	-0.074
3	371	Tokyo	Mitaka-Shi	-0.074
3	372	Tokushima	Aizumi-Cho Itano-Gun	-0.074
3	373	Kanagawa	Fujisawa-Shi	-0.074
3	374	Tokyo	Machida-Shi	-0.076
3	375	Yamanashi	Nirasaki-Shi	-0.078
3	376	Gumma	Ota-Shi	-0.079
3	377	Chiba	Funabashi-Shi	-0.079
3	378	Shiga	Koka-Shi	-0.082
3	379	Kumamoto	Kikuchi-Shi	-0.083
3	380	Saitama	Saitama	-0.088
3	381	Aichi	Owariasahi-Shi	-0.088
3	382	Gifu	Seki-Shi	-0.091
3	383	Chiba	Noda-Shi	-0.091
3	384	Shizuoka	Shimada-Shi	-0.093
3	385	Toyama	Uozu-Shi	-0.095
3	386	Nagano	Chikuma-Shi	-0.097
3	387	Akita	Yokote-Shi	-0.098
3	388	Chiba	Togane-Shi	-0.098
3	389	Yamagata	Tsuruoka-Shi	-0.099
3	390	Gumma	Isesaki-Shi	-0.099
3	391	Tokushima	Komatsushima-Shi	-0.100
3	392	Kanagawa	Hadano-Shi	-0.100
3	393	Miyagi	Ishinomaki-Shi	-0.103
3	394	Fukushima	Shirakawa-Shi	-0.110
3	395	Nagano	Shiojiri-Shi	-0.111
3	396	Shiga	Hino-Cho Gamo-Gun	-0.111
3	397	Chiba	Chiba	-0.115
3	398	Toyama	Takaoka-Shi	-0.118
3	399	Osaka	Higashiosaka-Shi	-0.118
3	400	Ishikawa	Nomi-Shi	-0.119
3	401	Nagano	Chino-Shi	-0.120
3	402	Chiba	Urayasu-Shi	-0.121

Industry	Ranking	State	City/Ward/Town/Village	Location effect
3	403	Nagano	Miyada-Mura Kamiina-Gun	-0.125
3	404	Kanagawa	Takatsu-Ku Kawasaki-Shi	-0.125
3	405	Aichi	Minato-Ku Nagoya-Shi	-0.125
3	406	Aichi	Miyoshi-cho	-0.126
3	407	Ishikawa	Kaga-Shi	-0.127
3	408	Shiga	Nagahama-Shi	-0.131
3	409	Ibaraki	Tsukuba-Shi	-0.132
3	410	Osaka	Joto-Ku Osaka-Shi	-0.133
3	411	Ehime	Saijo-Shi	-0.133
3	412	Chiba	Ichikawa-Shi	-0.136
3	413	Niigata	Shibata-Shi	-0.137
3	414	Hyogo	Asago-Shi	-0.138
3	415	Tochigi	Tochigi-Shi	-0.141
3	416	Aichi	Nishi-Ku Nagoya-Shi	-0.142
3	417	Nagano	Shimosuwa-Machi Suwa-Gun	-0.142
3	418	Gumma	Takasaki-Shi	-0.144
3	419	Aichi	Iwakura-Shi	-0.145
3	420	Ehime	Niihama-Shi	-0.146
3	421	Gifu	Takayama-Shi	-0.147
3	422	Osaka	Nishinari-Ku Osaka-Shi	-0.147
3	423	Oita	Kitsuki-Shi	-0.149
3	424	Yamanashi	Narusawa-Mura Minamitsuru-Gun	-0.150
3	425	Nagano	Okaya-Shi	-0.151
3	426	Saitama	Tokorozawa-Shi	-0.153
3	427	Nara	Nara-Shi	-0.153
3	428	Fukuoka	Wakamatsu-Ku Kitakyushu-Shi	-0.153
3	429	Gumma	Yoshii-cho	-0.154
3	430	Nagano	Tomi-Shi	-0.156
3	431	Toyama	Namerikawa-Shi	-0.156
3	432	Hyogo	Inami-Cho Kako-Gun	-0.157
3	433	Shizuoka	Mishima-Shi	-0.160
3	434	Chiba	Shibayama-Machi Sambu-Gun	-0.162
3	435	Kyoto	Ukyo-Ku Kyoto-Shi	-0.163
3	436	Fukuoka	Chikugo-Shi	-0.163
3	437	Tochigi	Oyama-Shi	-0.164
3	438	Tokyo	Tachikawa-Shi	-0.168
3	439	Fukushima	Kagamiishi-Machi Iwase-Gun	-0.168
3	440	Aichi	Tokoname-Shi	-0.168
3	441	Miyagi	Zao-Machi Katta-Gun	-0.168
3	442	Chiba	Chonan-Machi Chosei-Gun	-0.169
3	443	Fukushima	Sukagawa-Shi	-0.170
3	444	Iwate	Tono-Shi	-0.171
3	445	Yamanashi	Otsuki-Shi	-0.171
3	446	Aichi	Toyoake-Shi	-0.174
3	447	Kanagawa	Odawara-Shi	-0.176
3	448	Osaka	Ikuno-Ku Osaka-Shi	-0.176
3	449	Tokyo	Hinode-Machi Nishitama-Gun	-0.179
3	450	Osaka	Takatsuki-Shi	-0.184
3	451	Kyoto	Fushimi-Ku Kyoto-Shi	-0.185
3	452	Shiga	Konan-Shi	-0.185
3	453	Hyogo	Kawanishi-Shi	-0.186
3	454	Kanagawa	Isehara-Shi	-0.190

Industry	Ranking	State	City/Ward/Town/Village	Location effect
3	455	Toyama	Toyama-Shi	-0.190
3	456	Nara	Tenri-Shi	-0.194
3	457	Fukuoka	Shingu-Machi Kasuya-Gun	-0.196
3	458	Saga	Karatsu-Shi	-0.199
3	459	Hokkaido	Hakodate-Shi	-0.200
3	460	Gifu	Kani-Shi	-0.200
3	461	Osaka	Osakasayama-Shi	-0.201
3	462	Ibaraki	Tsuchiura-Shi	-0.202
3	463	Kyoto	Kizugawa-Shi	-0.204
3	464	Kyoto	Kumiyama-Cho Kuse-Gun	-0.205
3	465	Aichi	Kita-Ku Nagoya-Shi	-0.205
3	466	Ehime	Shikokuchuo-Shi	-0.213
3	467	Niigata	Kashiwazaki-Shi	-0.216
3	468	Saitama	Miyoshi-Machi Iruma-Gun	-0.217
3	469	Chiba	Sodegaura-Shi	-0.220
3	470	Tokyo	Hamura-Shi	-0.220
3	471	Ibaraki	Ibaraki-Machi Higashiibaraki-Gun	-0.223
3	472	Tokyo	Ome-Shi	-0.224
3	473	Nagano	Ina-Shi	-0.227
3	474	Fukuoka	Omuta-Shi	-0.227
3	475	Yamaguchi	Iwakuni-Shi	-0.228
3	476	Osaka	Ikeda-Shi	-0.229
3	477	Hokkaido	Nishi-Ku Sapporo-Shi	-0.230
3	478	Aichi	Konan-Shi	-0.230
3	479	Mie	Suzuka-Shi	-0.231
3	480	Niigata	Tsubame-Shi	-0.234
3	481	Nagano	Nagano-Shi	-0.236
3	482	Aichi	Kiyosu-Shi	-0.236
3	483	Gifu	Yamagata-Shi	-0.238
3	484	Kanagawa	Yamato-Shi	-0.239
3	485	Tochigi	Mibu-Machi Shimotsuga-Gun	-0.241
3	486	Tokyo	Fuchu-Shi	-0.241
3	487	Kumamoto	Kumamoto-Shi	-0.243
3	488	Akita	Yurihonjo-Shi	-0.243
3	489	Aichi	Nakamura-Ku Nagoya-Shi	-0.244
3	490	Aichi	Chiryu-Shi	-0.247
3	491	Gifu	Hashima-Shi	-0.247
3	492	Gifu	Kakamigahara-Shi	-0.247
3	493	Hiroshima	Asaminami-Ku Hiroshima-Shi	-0.251
3	494	Okayama	Takahashi-Shi	-0.253
3	495	Kochi	Nankoku-Shi	-0.255
3	496	Gifu	Gifu-Shi	-0.255
3	497	Nagano	Sakaki-Machi Hanishina-Gun	-0.264
3	498	Saitama	Kuki-Shi	-0.267
3	499	Aichi	Nisshin-Shi	-0.269
3	500	Yamagata	Sakata-Shi	-0.273
3	501	Toyama	Oyabe-Shi	-0.274
3	502	Okayama	Okayama	-0.275
3	503	Aichi	Oguchi-Cho Niwa-Gun	-0.275
3	504	Fukushima	Aizuwakamatsu-Shi	-0.280
3	505	Miyagi	Natori-Shi	-0.283
3	506	Hokkaido	Tomakomai-Shi	-0.284

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3	507	Nagano	Nakano-Shi	-0.286
3	508	Iwate	Ichinoseki-Shi	-0.287
3	509	Osaka	Moriguchi-Shi	-0.288
3	510	Fukuoka	Nogata-Shi	-0.288
3	511	Hyogo	Miki-Shi	-0.289
3	512	Kanagawa	Midori-Ku Yokohama-Shi	-0.290
3	513	Nagano	Takamori-Machi Shimoina-Gun	-0.291
3	514	Aomori	Hachinohe-Shi	-0.291
3	515	Mie	Matsusaka-Shi	-0.293
3	516	Kochi	Kochi-Shi	-0.297
3	517	Gifu	Hida-Shi	-0.300
3	518	Gifu	Minokamo-Shi	-0.301
3	519	Yamanashi	Yamanashi-Shi	-0.304
3	520	Tokyo	Arakawa-Ku	-0.311
3	521	Akita	Nikaho-Shi	-0.316
3	522	Kanagawa	Aikawa-Machi Aiko-Gun	-0.318
3	523	Osaka	Taisho-Ku Osaka-Shi	-0.322
3	524	Aichi	Gamagori-Shi	-0.323
3	525	Shimane	Yasugi-Shi	-0.325
3	526	Miyagi	Kurihara-Shi	-0.328
3	527	Akita	Yuzawa-Shi	-0.333
3	528	Fukushima	Izumizaki-Mura Nishishirakawa-Gun	-0.334
3	529	Okayama	Soja-Shi	-0.340
3	530	Aichi	Inuyama-Shi	-0.346
3	531	Nara	Sakurai-Shi	-0.348
3	532	Chiba	Yachimata-Shi	-0.354
3	533	Hyogo	Awaji-Shi	-0.354
3	534	Fukuoka	Umi-Machi Kasuya-Gun	-0.356
3	535	Ishikawa	Shika-Machi Hakui-Gun	-0.356
3	536	Hokkaido	Ishikari-Shi	-0.360
3	537	Toyama	Imizu-Shi	-0.361
3	538	Yamagata	Kaminoyama-Shi	-0.362
3	539	Miyagi	Sendai	-0.362
3	540	Saitama	Kamisato-Machi Kodama-Gun	-0.364
3	541	Yamaguchi	Shimonoseki-Shi	-0.366
3	542	Kumamoto	Yatsushiro-Shi	-0.369
3	543	Gumma	Tomioka-Shi	-0.372
3	544	Shizuoka	Kikugawa-Shi	-0.374
3	545	Saga	Saga-Shi	-0.384
3	546	Fukushima	Tamura-Shi	-0.390
3	547	Saitama	Yoshimi-Machi Hiki-Gun	-0.390
3	548	Kanagawa	Isogo-Ku Yokohama-Shi	-0.394
3	549	Kagawa	Mitoyo-Shi	-0.406
3	550	Osaka	Kashiwara-Shi	-0.416
3	551	Osaka	Habikino-Shi	-0.422
3	552	Aichi	Inazawa-Shi	-0.423
3	553	Saitama	Otone-cho	-0.432
3	554	Ibaraki	Ishioka-Shi	-0.433
3	555	Yamagata	Shinjo-Shi	-0.440
3	556	Kyoto	Yawata-Shi	-0.449
3	557	Tokushima	Yoshinogawa-Shi	-0.456
3	558	Kagawa	Tadotsu-Cho Nakatado-Gun	-0.465

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3	559	Nagasaki	Togitsu-Cho Nishisonogi-Gun	-0.465
3	560	Kagawa	Takamatsu-Shi	-0.465
3	561	Fukushima	Shimogo-Machi Minamiaizu-Gun	-0.469
3	562	Aomori	Hirosaki-Shi	-0.472
3	563	Tochigi	Otawara-Shi	-0.473
3	564	Osaka	Matsubara-Shi	-0.474
3	565	Chiba	Narashino-Shi	-0.482
3	566	Oita	Kunisaki-Shi	-0.482
3	567	Saitama	Okegawa-Shi	-0.492
3	568	Oita	Saiki-Shi	-0.497
3	569	Tokyo	Meguro-Ku	-0.504
3	570	Yamaguchi	Ube-Shi	-0.523
3	571	Kanagawa	Samukawa-Machi Koza-Gun	-0.543
3	572	Hokkaido	Muroran-Shi	-0.545
3	573	Tokyo	Nishitokyo-Shi	-0.549
3	574	Aichi	Togo-Cho Aichi-Gun	-0.555
3	575	Ibaraki	Hitachiomiya-Shi	-0.572
3	576	Gumma	Chiyoda-Machi Ora-Gun	-0.578
3	577	Kagawa	Marugame-Shi	-0.579
3	578	Ibaraki	Kasumigaura-Shi	-0.611
3	579	Tochigi	Nogi-Machi Shimotsuga-Gun	-0.620
3	580	Nagano	Tatsuno-Machi Kamiina-Gun	-0.621
3	581	Okayama	Ibara-Shi	-0.623
3	582	Niigata	Joetsu-Shi	-0.635
3	583	Saitama	Toda-Shi	-0.637
3	584	Aichi	Seto-Shi	-0.694
3	585	Oita	Bungoono-Shi	-0.734
3	586	Nagano	Miyota-Machi Kitasaku-Gun	-0.766
3	587	Yamagata	Mikawa-Machi Higashitagawa-Gun	-0.795
3	588	Aichi	Chita-Shi	-0.879
3	589	Kyoto	Maizuru-Shi	-0.894
3	590	Chiba	Nagareyama-Shi	-0.949
4	1	Tokyo	Shibuya-Ku	1.134
4	2	Oita	Yufu-Shi	0.779
4	3	Oita	Kitsuki-Shi	0.743
4	4	Nagano	Minamiminowa-Mura Kamiina-Gun	0.654
4	5	Kochi	Konan-Shi	0.594
4	6	Tokyo	Higashiyamato-Shi	0.564
4	7	Gumma	Shibukawa-Shi	0.537
4	8	Saitama	Tsurugashima-Shi	0.531
4	9	Nagano	Ina-Shi	0.510
4	10	Okayama	Mimasaka-Shi	0.505
4	11	Yamagata	Higashine-Shi	0.444
4	12	Kagoshima	Satsuma-Cho Satsuma-Gun	0.408
4	13	Hiroshima	Shobara-Shi	0.400
4	14	Tokyo	Arakawa-Ku	0.382
4	15	Gumma	Ora-Machi Ora-Gun	0.376
4	16	Gifu	Takayama-Shi	0.368
4	17	Hyogo	Shiso-Shi	0.366
4	18	Gumma	Annaka-Shi	0.362
4	19	Aichi	Obu-Shi	0.357
4	20	Fukuoka	Hirokawa-Machi Yame-Gun	0.345

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4	21	Tokyo	Adachi-Ku	0.344
4	22	Hyogo	Sayo-Cho Sayo-Gun	0.340
4	23	Shizuoka	Kikugawa-Shi	0.333
4	24	Niigata	Myoko-Shi	0.320
4	25	Toyama	Tonami-Shi	0.315
4	26	Tokyo	Katsushika-Ku	0.311
4	27	Osaka	Sakai	0.308
4	28	Kagoshima	Isa-Shi	0.305
4	29	Yamanashi	Yamanashi-Shi	0.299
4	30	Okayama	Kurashiki-Shi	0.298
4	31	Iwate	Shiwa-Cho Shiwa-Gun	0.288
4	32	Kagawa	Mitoyo-Shi	0.287
4	33	Toyama	Kamiichi-Machi Nakaniikawa-Gun	0.287
4	34	Yamaguchi	Mine-Shi	0.284
4	35	Hyogo	Akashi-Shi	0.280
4	36	Oita	Kunisaki-Shi	0.276
4	37	Saitama	Otone-cho	0.269
4	38	Fukushima	Minamiaizu-Machi Minamiaizu-Gun	0.250
4	39	Iwate	Ichinohe-Machi Ninohe-Gun	0.240
4	40	Tochigi	Ohira-cho	0.239
4	41	Okayama	Ibara-Shi	0.228
4	42	Aichi	Toyoake-Shi	0.227
4	43	Aomori	Hirakawa-Shi	0.226
4	44	Aomori	Hirosaki-Shi	0.226
4	45	Yamagata	Takahata-Machi Higashiokitama-Gun	0.222
4	46	Ibaraki	Bando-Shi	0.220
4	47	Shizuoka	Iwata-Shi	0.207
4	48	Osaka	Settsu-Shi	0.205
4	49	Saitama	Satte-Shi	0.202
4	50	Tokyo	Kita-Ku	0.195
4	51	Fukuoka	Kokurakita-Ku Kitakyushu-Shi	0.195
4	52	Miyagi	Taiwa-Cho Kurokawa-Gun	0.193
4	53	Saitama	Kawaguchi-Shi	0.192
4	54	Yamagata	Yamagata-Shi	0.191
4	55	Shizuoka	Izunokuni-Shi	0.190
4	56	Aomori	Goshogawara-Shi	0.190
4	57	Nagano	Iida-Shi	0.185
4	58	Niigata	Tainai-Shi	0.184
4	59	Saitama	Miyoshi-Machi Iruma-Gun	0.183
4	60	Hiroshima	Miyoshi-Shi	0.179
4	61	Saitama	Kawagoe-Shi	0.179
4	62	Chiba	Sosa-Shi	0.177
4	63	Aichi	Toyohashi-Shi	0.173
4	64	Nagano	Matsukawa-Machi Shimoina-Gun	0.166
4	65	Niigata	Ojiya-Shi	0.166
4	66	Aichi	Mizuho-Ku Nagoya-Shi	0.165
4	67	Oita	Hiji-Machi Hayami-Gun	0.164
4	68	Shizuoka	Makinohara-Shi	0.162
4	69	Tottori	Chizu-Cho Yazu-Gun	0.157
4	70	Osaka	Hirakata-Shi	0.157
4	71	Chiba	Matsudo-Shi	0.151
4	72	Nagano	Nakano-Shi	0.150

Industry	Ranking	State	City/Ward/Town/Village	Location effect
4	73	Oita	Oita-Shi	0.149
4	74	Ehime	Imabari-Shi	0.149
4	75	Kumamoto	Kumamoto-Shi	0.146
4	76	Hiroshima	Fukuyama-Shi	0.145
4	77	Nagano	Anan-Cho Shimoina-Gun	0.145
4	78	Kumamoto	Yatsushiro-Shi	0.145
4	79	Nagano	Shimosuwa-Machi Suwa-Gun	0.145
4	80	Toyama	Nanto-Shi	0.143
4	81	Niigata	Agano-Shi	0.140
4	82	Nagano	Tatsuno-Machi Kamiina-Gun	0.138
4	83	Ehime	Saijo-Shi	0.132
4	84	Aomori	Hachinohe-Shi	0.132
4	85	Nagano	Suzaka-Shi	0.131
4	86	Ibaraki	Namegata-Shi	0.130
4	87	Okayama	Maniwa-Shi	0.129
4	88	Aichi	Inazawa-Shi	0.125
4	89	Yamanashi	Hokuto-Shi	0.125
4	90	Shizuoka	Shizuoka	0.125
4	91	Kochi	Kochi-Shi	0.125
4	92	Kumamoto	Kikuchi-Shi	0.123
4	93	Oita	Hita-Shi	0.119
4	94	Tokyo	Mitaka-Shi	0.118
4	95	Aichi	Okazaki-Shi	0.116
4	96	Shiga	Ritto-Shi	0.114
4	97	Gifu	Yaotsu-Cho Kamo-Gun	0.114
4	98	Aichi	Kota-Cho Nukata-Gun	0.112
4	99	Nagano	Toyoka-Mura Shimoina-Gun	0.109
4	100	Hyogo	Himeji-Shi	0.109
4	101	Aichi	Jimokuji-cho	0.109
4	102	Tokyo	Setagaya-Ku	0.106
4	103	Tokyo	Kodaira-Shi	0.104
4	104	Osaka	Nishiyodogawa-Ku Osaka-Shi	0.102
4	105	Akita	Noshiro-Shi	0.099
4	106	Tochigi	Otawara-Shi	0.098
4	107	Gumma	Nakanojo-Machi Agatsuma-Gun	0.096
4	108	Saitama	Ogano-Machi Chichibu-Gun	0.095
4	109	Fukushima	Koriyama-Shi	0.095
4	110	Aichi	Kariya-Shi	0.095
4	111	Mie	Tamaki-Cho Watarai-Gun	0.085
4	112	Chiba	Ichikawa-Shi	0.083
4	113	Kanagawa	Kohoku-Ku Yokohama-Shi	0.079
4	114	Hiroshima	Onomichi-Shi	0.079
4	115	Kanagawa	Tsurumi-Ku Yokohama-Shi	0.079
4	116	Mie	Nabari-Shi	0.079
4	117	Okayama	Akaiwa-Shi	0.077
4	118	Saga	Imari-Shi	0.076
4	119	Hiroshima	Higashihiroshima-Shi	0.075
4	120	Niigata	Gosen-Shi	0.075
4	121	Aichi	Owariasahi-Shi	0.074
4	122	Shizuoka	Kakegawa-Shi	0.072
4	123	Gifu	Minokamo-Shi	0.070
4	124	Aichi	Shinshiro-Shi	0.069

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4	125	Gifu	Ena-Shi	0.065
4	126	Akita	Akita-Shi	0.065
4	127	Mie	Asahi-Cho Mie-Gun	0.065
4	128	Okayama	Niimi-Shi	0.064
4	129	Tokyo	Akishima-Shi	0.063
4	130	Shimane	Unnan-Shi	0.062
4	131	Gumma	Tomioka-Shi	0.059
4	132	Aichi	Toyokawa-Shi	0.059
4	133	Kanagawa	Odawara-Shi	0.059
4	134	Saitama	Konosu-Shi	0.058
4	135	Tokyo	Mizuho-Machi Nishitama-Gun	0.056
4	136	Saitama	Iruma-Shi	0.054
4	137	Fukushima	Tanagura-Machi Higashishirakawa-Gun	0.051
4	138	Fukushima	Aizuwakamatsu-Shi	0.051
4	139	Miyagi	Shibata-Machi Shibata-Gun	0.049
4	140	Tochigi	Nasukarasuyama-Shi	0.047
4	141	Saitama	Yashio-Shi	0.047
4	142	Nagano	Iiyama-Shi	0.046
4	143	Shizuoka	Numazu-Shi	0.045
4	144	Hyogo	Taishi-Cho Ibo-Gun	0.042
4	145	Hyogo	Nishinomiya-Shi	0.041
4	146	Shizuoka	Gotemba-Shi	0.038
4	147	Nagano	Minowa-Machi Kamiina-Gun	0.037
4	148	Nara	Yamatokoriyama-Shi	0.036
4	149	Shizuoka	Kannami-Cho Tagata-Gun	0.035
4	150	Hyogo	Tarumi-Ku Kobe-Shi	0.035
4	151	Kumamoto	Koshi-Shi	0.029
4	152	Yamaguchi	Ube-Shi	0.029
4	153	Kanagawa	Midori-Ku Yokohama-Shi	0.028
4	154	Yamagata	Nanyo-Shi	0.028
4	155	Ishikawa	Hakui-Shi	0.025
4	156	Iwate	Fujisawa-Cho Higashiiwai-Gun	0.024
4	157	Mie	Meiwa-Cho Taki-Gun	0.024
4	158	Fukuoka	Moji-Ku Kitakyushu-Shi	0.024
4	159	Osaka	Asahi-Ku Osaka-Shi	0.022
4	160	Aichi	Toyota-Shi	0.022
4	161	Osaka	Toyonaka-Shi	0.021
4	162	Hokkaido	Kitami-Shi	0.021
4	163	Nagano	Shiojiri-Shi	0.019
4	164	Aichi	Seto-Shi	0.018
4	165	Kagawa	Takamatsu-Shi	0.018
4	166	Gifu	Hida-Shi	0.018
4	167	Kanagawa	Ayase-Shi	0.017
4	168	Nagano	Nagano-Shi	0.016
4	169	Niigata	Seiro-Machi Kitakambara-Gun	0.016
4	170	Saga	Yoshinogari-Cho Kanzaki-Gun	0.015
4	171	Ishikawa	Kaga-Shi	0.012
4	172	Saitama	Hanyu-Shi	0.011
4	173	Niigata	Niigata	0.010
4	174	Nagano	Suwa-Shi	0.010
4	175	Nagano	Chikuma-Shi	0.010
4	176	Yamaguchi	Yamaguchi-Shi	0.009

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4	177	Yamagata	Tsuruoka-Shi	0.006
4	178	Gumma	Tamamura-Machi Sawa-Gun	0.005
4	179	Tokyo	Suginami-Ku	0.002
4	180	Gifu	Nakatsugawa-Shi	0.002
4	181	Shiga	Higashiomi-Shi	0.001
4	182	Shizuoka	Hamamatsu	0.000
4	183	Hyogo	Tamba-Shi	-0.004
4	184	Shiga	Kusatsu-Shi	-0.005
4	185	Miyagi	Murata-Machi Shibata-Gun	-0.007
4	186	Kumamoto	Minamata-Shi	-0.007
4	187	Hyogo	Fukusaki-Cho Kanzaki-Gun	-0.010
4	188	Gumma	Midori-Shi	-0.010
4	189	Saitama	Kumagaya-Shi	-0.011
4	190	Hyogo	Ono-Shi	-0.013
4	191	Niigata	Nagaoka-Shi	-0.013
4	192	Nagano	Matsumoto-Shi	-0.014
4	193	Kanagawa	Kamakura-Shi	-0.016
4	194	Shizuoka	Fujinomiya-Shi	-0.017
4	195	Iwate	Hanamaki-Shi	-0.020
4	196	Fukushima	Fukushima-Shi	-0.020
4	197	Okayama	Bizen-Shi	-0.021
4	198	Fukuoka	Chikugo-Shi	-0.021
4	199	Aichi	Kasugai-Shi	-0.023
4	200	Saga	Karatsu-Shi	-0.023
4	201	Hokkaido	Chitose-Shi	-0.024
4	202	Nagano	Azumino-Shi	-0.024
4	203	Fukushima	Kagamiishi-Machi Iwase-Gun	-0.024
4	204	Tokyo	Chofu-Shi	-0.025
4	205	Gifu	Ogaki-Shi	-0.025
4	206	Tochigi	Nasushiobara-Shi	-0.027
4	207	Ibaraki	Ishioka-Shi	-0.027
4	208	Aichi	Nisshin-Shi	-0.028
4	209	Fukushima	Shirakawa-Shi	-0.029
4	210	Tochigi	Tochigi-Shi	-0.030
4	211	Shizuoka	Fuji-Shi	-0.030
4	212	Gifu	Kakamigahara-Shi	-0.030
4	213	Osaka	Yao-Shi	-0.031
4	214	Mie	Yokkaichi-Shi	-0.032
4	215	Aomori	Kuroishi-Shi	-0.033
4	216	Fukui	Ono-Shi	-0.033
4	217	Osaka	Takatsuki-Shi	-0.033
4	218	Tochigi	Ashikaga-Shi	-0.034
4	219	Miyagi	Ohira-Mura Kurokawa-Gun	-0.034
4	220	Yamagata	Sakata-Shi	-0.035
4	221	Niigata	Tokamachi-Shi	-0.035
4	222	Tochigi	Kanuma-Shi	-0.035
4	223	Chiba	Sakura-Shi	-0.036
4	224	Shizuoka	Susono-Shi	-0.037
4	225	Ehime	Matsuyama-Shi	-0.038
4	226	Saitama	Fukaya-Shi	-0.039
4	227	Saitama	Gyoda-Shi	-0.039
4	228	Hyogo	Sanda-Shi	-0.041

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4	229	Kanagawa	Zama-Shi	-0.041
4	230	Shizuoka	Shimada-Shi	-0.042
4	231	Fukuoka	Kurume-Shi	-0.045
4	232	Ibaraki	Chikusei-Shi	-0.045
4	233	Tokyo	Itabashi-Ku	-0.046
4	234	Nagano	Iijima-Machi Kamiina-Gun	-0.047
4	235	Hyogo	Hyogo-Ku Kobe-Shi	-0.047
4	236	Osaka	Ibaraki-Shi	-0.049
4	237	Tokyo	Hino-Shi	-0.049
4	238	Aomori	Aomori-Shi	-0.049
4	239	Hyogo	Ako-Shi	-0.052
4	240	Oita	Usa-Shi	-0.052
4	241	Ibaraki	Mito-Shi	-0.052
4	242	Gifu	Mizunami-Shi	-0.053
4	243	Ishikawa	Nakanoto-Machi Kashima-Gun	-0.053
4	244	Ibaraki	Koga-Shi	-0.054
4	245	Tokyo	Akiruno-Shi	-0.054
4	246	Ibaraki	Joso-Shi	-0.057
4	247	Tochigi	Nikko-Shi	-0.057
4	248	Tochigi	Oyama-Shi	-0.058
4	249	Yamanashi	Kofu-Shi	-0.059
4	250	Osaka	Suita-Shi	-0.060
4	251	Osaka	Kita-Ku Osaka-Shi	-0.062
4	252	Miyazaki	Kiyotake-cho	-0.062
4	253	Kanagawa	Hiratsuka-Shi	-0.064
4	254	Fukushima	Izumizaki-Mura Nishishirakawa-Gun	-0.066
4	255	Shizuoka	Mishima-Shi	-0.067
4	256	Kyoto	Yawata-Shi	-0.068
4	257	Okayama	Tsuyama-Shi	-0.069
4	258	Aichi	Anjo-Shi	-0.069
4	259	Ishikawa	Nanao-Shi	-0.069
4	260	Fukushima	Sukagawa-Shi	-0.069
4	261	Tottori	Tottori-Shi	-0.070
4	262	Nagano	Okaya-Shi	-0.071
4	263	Kumamoto	Ozu-Machi Kikuchi-Gun	-0.072
4	264	Fukushima	Date-Shi	-0.073
4	265	Aomori	Nambu-Cho Sannohe-Gun	-0.075
4	266	Tochigi	Motegi-Machi Haga-Gun	-0.076
4	267	Aichi	Kiyosu-Shi	-0.076
4	268	Nagano	Chino-Shi	-0.079
4	269	Osaka	Katano-Shi	-0.080
4	270	Fukuoka	Nogata-Shi	-0.081
4	271	Gifu	Kani-Shi	-0.081
4	272	Gumma	Higashiagatsuma-Machi Agatsuma-Gun	-0.082
4	273	Kagoshima	Satsumasendai-Shi	-0.083
4	274	Shiga	Nagahama-Shi	-0.084
4	275	Saitama	Kuki-Shi	-0.084
4	276	Akita	Yurihonjo-Shi	-0.084
4	277	Gumma	Isesaki-Shi	-0.085
4	278	Chiba	Funabashi-Shi	-0.085
4	279	Tokyo	Hamura-Shi	-0.086
4	280	Yamanashi	Tsuru-Shi	-0.086

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4	281	Ibaraki	Naka-Shi	-0.089
4	282	Iwate	Ichinoseki-Shi	-0.090
4	283	Oita	Nakatsu-Shi	-0.090
4	284	Yamagata	Murayama-Shi	-0.090
4	285	Miyagi	Sendai	-0.090
4	286	Nagano	Fujimi-Machi Suwa-Gun	-0.095
4	287	Shizuoka	Fukuroi-Shi	-0.096
4	288	Fukushima	Nishigo-Mura Nishishirakawa-Gun	-0.101
4	289	Kyoto	Fukuchiyama-Shi	-0.105
4	290	Hyogo	Itami-Shi	-0.105
4	291	Nagano	Komagane-Shi	-0.105
4	292	Okayama	Wake-Cho Wake-Gun	-0.105
4	293	Gumma	Fujioka-Shi	-0.106
4	294	Okayama	Okayama	-0.106
4	295	Ibaraki	Yachiyo-Machi Yuki-Gun	-0.107
4	296	Osaka	Kadoma-Shi	-0.107
4	297	Mie	Suzuka-Shi	-0.108
4	298	Aichi	Komaki-Shi	-0.108
4	299	Gumma	Ota-Shi	-0.109
4	300	Yamanashi	Oshino-Mura Minamitsuru-Gun	-0.109
4	301	Kanagawa	Hadano-Shi	-0.109
4	302	Saitama	Saitama	-0.111
4	303	Toyama	Uozu-Shi	-0.111
4	304	Niigata	Sanjo-Shi	-0.111
4	305	Niigata	Uonuma-Shi	-0.113
4	306	Fukuoka	Higashi-Ku Fukuoka-Shi	-0.113
4	307	Saga	Saga-Shi	-0.113
4	308	Iwate	Kitakami-Shi	-0.113
4	309	Gumma	Maebashi-Shi	-0.113
4	310	Fukushima	Iwaki-Shi	-0.114
4	311	Mie	Komono-Cho Mie-Gun	-0.114
4	312	Shiga	Omihachiman-Shi	-0.116
4	313	Shiga	Konan-Shi	-0.116
4	314	Kanagawa	Atsugi-Shi	-0.117
4	315	Shiga	Yasu-Shi	-0.120
4	316	Saitama	Honjo-Shi	-0.120
4	317	Ehime	Niihama-Shi	-0.123
4	318	Osaka	Higashiyodogawa-Ku Osaka-Shi	-0.125
4	319	Yamanashi	Fujiyoshida-Shi	-0.126
4	320	Kanagawa	Saiwai-Ku Kawasaki-Shi	-0.126
4	321	Chiba	Kimitsu-Shi	-0.127
4	322	Osaka	Hirano-Ku Osaka-Shi	-0.128
4	323	Osaka	Neyagawa-Shi	-0.129
4	324	Saitama	Kamisato-Machi Kodama-Gun	-0.129
4	325	Hiroshima	Minami-Ku Hiroshima-Shi	-0.129
4	326	Nagano	Saku-Shi	-0.129
4	327	Osaka	Moriguchi-Shi	-0.130
4	328	Kagoshima	Kirishima-Shi	-0.130
4	329	Chiba	Mobara-Shi	-0.131
4	330	Tokyo	Ota-Ku	-0.131
4	331	Shiga	Koka-Shi	-0.133
4	332	Tottori	Kurayoshi-Shi	-0.133

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4	333	Kanagawa	Aikawa-Machi Aiko-Gun	-0.133
4	334	Shizuoka	Yoshida-Cho Haibara-Gun	-0.133
4	335	Fukushima	Soma-Shi	-0.136
4	336	Fukuoka	Yukuhashi-Shi	-0.136
4	337	Niigata	Shibata-Shi	-0.137
4	338	Nagano	Ueda-Shi	-0.138
4	339	Tokyo	Ome-Shi	-0.138
4	340	Fukui	Wakasa-Cho Mikatakaminaka-Gun	-0.138
4	341	Yamanashi	Uenohara-Shi	-0.139
4	342	Hyogo	Toyoka-Shi	-0.139
4	343	Toyama	Takaoka-Shi	-0.140
4	344	Yamanashi	Koshu-Shi	-0.141
4	345	Mie	Matsusaka-Shi	-0.141
4	346	Tochigi	Yaita-Shi	-0.142
4	347	Hyogo	Kato-Shi	-0.143
4	348	Kyoto	Joyo-Shi	-0.146
4	349	Yamagata	Tendo-Shi	-0.146
4	350	Tochigi	Sano-Shi	-0.147
4	351	Kanagawa	Nakai-Machi Ashigarakami-Gun	-0.148
4	352	Miyagi	Tagajo-Shi	-0.149
4	353	Gifu	Mitake-Cho Kani-Gun	-0.149
4	354	Kagawa	Marugame-Shi	-0.149
4	355	Saitama	Chichibu-Shi	-0.149
4	356	Ibaraki	Ami-Machi Inashiki-Gun	-0.150
4	357	Yamanashi	Minamiarupusu-Shi	-0.150
4	358	Mie	Kameyama-Shi	-0.151
4	359	Shiga	Moriyama-Shi	-0.152
4	360	Saitama	Fujimino-Shi	-0.152
4	361	Kumamoto	Uki-Shi	-0.152
4	362	Tokyo	Hachioji-Shi	-0.153
4	363	Gumma	Kiryu-Shi	-0.155
4	364	Ibaraki	Hitachinaka-Shi	-0.155
4	365	Shiga	Hikone-Shi	-0.156
4	366	Saitama	Tokorozawa-Shi	-0.156
4	367	Shizuoka	Kosai-Shi	-0.156
4	368	Yamagata	Yonezawa-Shi	-0.157
4	369	Nagano	Omachi-Shi	-0.158
4	370	Hyogo	Kakogawa-Shi	-0.164
4	371	Mie	Taki-Cho Taki-Gun	-0.165
4	372	Hyogo	Amagasaki-Shi	-0.166
4	373	Tokyo	Nerima-Ku	-0.166
4	374	Kanagawa	Asahi-Ku Yokohama-Shi	-0.167
4	375	Kanagawa	Takatsu-Ku Kawasaki-Shi	-0.172
4	376	Aichi	Midori-Ku Nagoya-Shi	-0.172
4	377	Mie	Inabe-Shi	-0.173
4	378	Fukuoka	Yahatanishi-Ku Kitakyushu-Shi	-0.175
4	379	Kanagawa	Kawasaki-Ku Kawasaki-Shi	-0.176
4	380	Niigata	Minamiuonuma-Shi	-0.176
4	381	Osaka	Higashiosaka-Shi	-0.177
4	382	Ishikawa	Nomi-Shi	-0.177
4	383	Kanagawa	Nakahara-Ku Kawasaki-Shi	-0.177
4	384	Fukushima	Minamisoma-Shi	-0.179

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4	385	Toyama	Toyama-Shi	-0.180
4	386	Kyoto	Kameoka-Shi	-0.181
4	387	Osaka	Suminoe-Ku Osaka-Shi	-0.181
4	388	Akita	Katagami-Shi	-0.182
4	389	Iwate	Ninohe-Shi	-0.183
4	390	Nagano	Sakaki-Machi Hanishina-Gun	-0.184
4	391	Nagasaki	Omura-Shi	-0.185
4	392	Okayama	Kasaoka-Shi	-0.185
4	393	Akita	Daisen-Shi	-0.185
4	394	Hokkaido	Tomakomai-Shi	-0.187
4	395	Chiba	Yachiyo-Shi	-0.193
4	396	Ibaraki	Yuki-Shi	-0.193
4	397	Akita	Yuzawa-Shi	-0.199
4	398	Toyama	Imizu-Shi	-0.199
4	399	Hyogo	Kasai-Shi	-0.201
4	400	Kanagawa	Chigasaki-Shi	-0.203
4	401	Saitama	Misato-Shi	-0.205
4	402	Kanagawa	Yamato-Shi	-0.206
4	403	Ibaraki	Hitachi-Shi	-0.207
4	404	Ishikawa	Hakusan-Shi	-0.207
4	405	Mie	Ise-Shi	-0.207
4	406	Aichi	Oguchi-Cho Niwa-Gun	-0.208
4	407	Gifu	Gujo-Shi	-0.208
4	408	Chiba	Narashino-Shi	-0.208
4	409	Fukushima	Motomiya-Shi	-0.209
4	410	Akita	Nikaho-Shi	-0.211
4	411	Kanagawa	Fujisawa-Shi	-0.211
4	412	Miyagi	Ishinomaki-Shi	-0.213
4	413	Kagoshima	Minamisatsuma-Shi	-0.213
4	414	Ibaraki	Hitachiomiya-Shi	-0.214
4	415	Shiga	Otsu-Shi	-0.216
4	416	Kumamoto	Nishihara-Mura Aso-Gun	-0.217
4	417	Osaka	Shijonawate-Shi	-0.219
4	418	Kanagawa	Sagamihara	-0.221
4	419	Gumma	Takasaki-Shi	-0.222
4	420	Nagasaki	Isahaya-Shi	-0.222
4	421	Chiba	Katori-Shi	-0.223
4	422	Nagano	Komoro-Shi	-0.224
4	423	Fukushima	Tamura-Shi	-0.225
4	424	Fukushima	Kitakata-Shi	-0.229
4	425	Shimane	Izumo-Shi	-0.234
4	426	Tokyo	Fuchu-Shi	-0.237
4	427	Yamanashi	Fuefuki-Shi	-0.237
4	428	Miyagi	Shiroishi-Shi	-0.238
4	429	Miyagi	Natori-Shi	-0.239
4	430	Kanagawa	Samukawa-Machi Koza-Gun	-0.240
4	431	Kyoto	Nagaokakyo-Shi	-0.242
4	432	Kanagawa	Tama-Ku Kawasaki-Shi	-0.242
4	433	Aichi	Inuyama-Shi	-0.248
4	434	Chiba	Kashiwa-Shi	-0.249
4	435	Osaka	Daito-Shi	-0.251
4	436	Tochigi	Utsunomiya-Shi	-0.258

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4	437	Nagano	Tomi-Shi	-0.258
4	438	Mie	Iga-Shi	-0.258
4	439	Miyagi	Kurihara-Shi	-0.260
4	440	Ibaraki	Sakuragawa-Shi	-0.263
4	441	Fukushima	Nakajima-Mura Nishishirakawa-Gun	-0.263
4	442	Tochigi	Moka-Shi	-0.266
4	443	Fukushima	Kawamata-Machi Date-Gun	-0.267
4	444	Niigata	Kashiwazaki-Shi	-0.267
4	445	Kanagawa	Totsuka-Ku Yokohama-Shi	-0.268
4	446	Akita	Yokote-Shi	-0.270
4	447	Niigata	Joetsu-Shi	-0.271
4	448	Ibaraki	Kasama-Shi	-0.271
4	449	Ibaraki	Ryugasaki-Shi	-0.272
4	450	Kanagawa	Isehara-Shi	-0.273
4	451	Osaka	Yodogawa-Ku Osaka-Shi	-0.274
4	452	Miyagi	Osaki-Shi	-0.275
4	453	Aichi	Nakagawa-Ku Nagoya-Shi	-0.275
4	454	Yamanashi	Chuo-Shi	-0.278
4	455	Kanagawa	Yokosuka-Shi	-0.279
4	456	Saitama	Hidaka-Shi	-0.281
4	457	Nara	Kashihara-Shi	-0.285
4	458	Kanagawa	Ebina-Shi	-0.285
4	459	Gifu	Seki-Shi	-0.287
4	460	Tokyo	Meguro-Ku	-0.293
4	461	Fukui	Obama-Shi	-0.293
4	462	Kyoto	Ukyo-Ku Kyoto-Shi	-0.295
4	463	Hyogo	Sumoto-Shi	-0.298
4	464	Tokushima	Yoshinogawa-Shi	-0.311
4	465	Mie	Kuwana-Shi	-0.311
4	466	Yamagata	Nagai-Shi	-0.313
4	467	Gifu	Tajimi-Shi	-0.314
4	468	Gumma	Oizumi-Machi Ora-Gun	-0.314
4	469	Chiba	Ichihara-Shi	-0.317
4	470	Tokyo	Machida-Shi	-0.317
4	471	Saitama	Hanno-Shi	-0.319
4	472	Iwate	Miyako-Shi	-0.326
4	473	Chiba	Chiba	-0.334
4	474	Chiba	Tateyama-Shi	-0.335
4	475	Yamagata	Sagae-Shi	-0.341
4	476	Toyama	Namerikawa-Shi	-0.345
4	477	Ibaraki	Tsukuba-Shi	-0.348
4	478	Shizuoka	Fujieda-Shi	-0.350
4	479	Saitama	Sayama-Shi	-0.351
4	480	Kyoto	Minami-Ku Kyoto-Shi	-0.352
4	481	Ishikawa	Kahoku-Shi	-0.354
4	482	Mie	Shima-Shi	-0.354
4	483	Shiga	Takashima-Shi	-0.357
4	484	Saitama	Sakado-Shi	-0.358
4	485	Hyogo	Takarazuka-Shi	-0.361
4	486	Kyoto	Uji-Shi	-0.362
4	487	Shimane	Masuda-Shi	-0.363
4	488	Aomori	Towada-Shi	-0.365

Industry	Ranking	State	City/Ward/Town/Village	Location effect
4	489	Miyazaki	Miyazaki-Shi	-0.373
4	490	Saitama	Ageo-Shi	-0.374
4	491	Ibaraki	Kamisu-Shi	-0.375
4	492	Ishikawa	Kanazawa-Shi	-0.378
4	493	Ibaraki	Kitaibaraki-Shi	-0.379
4	494	Toyama	Nyuzen-Machi Shimoniikawa-Gun	-0.381
4	495	Osaka	Nishinari-Ku Osaka-Shi	-0.381
4	496	Niigata	Murakami-Shi	-0.382
4	497	Aichi	Minami-Ku Nagoya-Shi	-0.384
4	498	Tokyo	Shinagawa-Ku	-0.385
4	499	Miyagi	Tome-Shi	-0.394
4	500	Mie	Tsu-Shi	-0.396
4	501	Akita	Semboku-Shi	-0.399
4	502	Kumamoto	Tamana-Shi	-0.411
4	503	Ibaraki	Inashiki-Shi	-0.411
4	504	Yamanashi	Nirasaki-Shi	-0.416
4	505	Tokyo	Higashikurume-Shi	-0.420
4	506	Ishikawa	Shika-Machi Hakui-Gun	-0.425
4	507	Miyazaki	Miyakonojo-Shi	-0.430
4	508	Kagoshima	Izumi-Shi	-0.433
4	509	Kyoto	Kumiyama-Cho Kuse-Gun	-0.435
4	510	Saga	Takeo-Shi	-0.443
4	511	Tottori	Daisen-Cho Saihaku-Gun	-0.443
4	512	Tokyo	Kokubunji-Shi	-0.446
4	513	Tokyo	Tama-Shi	-0.449
4	514	Ibaraki	Omitama-Shi	-0.463
4	515	Yamanashi	Kai-Shi	-0.470
4	516	Nagasaki	Sasebo-Shi	-0.471
4	517	Yamagata	Obanazawa-Shi	-0.474
4	518	Miyazaki	Nichinan-Shi	-0.481
4	519	Iwate	Oshu-Shi	-0.485
4	520	Fukushima	Nihommatsu-Shi	-0.487
4	521	Niigata	Sado-Shi	-0.489
4	522	Fukuoka	Fukuchi-Machi Tagawa-Gun	-0.495
4	523	Akita	Odate-Shi	-0.501
4	524	Hyogo	Higashinada-Ku Kobe-Shi	-0.501
4	525	Miyagi	Watari-Cho Watari-Gun	-0.501
4	526	Miyagi	Tomiya-Machi Kurokawa-Gun	-0.502
4	527	Hyogo	Yabu-Shi	-0.505
4	528	Fukuoka	Koga-Shi	-0.510
4	529	Saitama	Soka-Shi	-0.515
4	530	Hokkaido	Higashi-Ku Sapporo-Shi	-0.518
4	531	Ishikawa	Komatsu-Shi	-0.530
4	532	Tottori	Yonago-Shi	-0.544
4	533	Hokkaido	Muroran-Shi	-0.544
4	534	Niigata	Tsubame-Shi	-0.560
4	535	Akita	Kitaakita-Shi	-0.575
4	536	Tokyo	Inagi-Shi	-0.576
4	537	Saitama	Namegawa-Machi Hiki-Gun	-0.583
4	538	Saitama	Kitamoto-Shi	-0.586
4	539	Yamagata	Shinjo-Shi	-0.590
4	540	Fukuoka	Iizuka-Shi	-0.591

Industry	Ranking	State	City/Ward/Town/Village	Location effect
4	541	Ehime	Uwajima-Shi	-0.595
4	542	Saitama	Misato-Machi Kodama-Gun	-0.644
4	543	Osaka	Kashiwara-Shi	-0.646
4	544	Shizuoka	Omaezaki-Shi	-0.651
4	545	Shimane	Hikawa-Cho Hikawa-Gun	-0.667
4	546	Kanagawa	Kanazawa-Ku Yokohama-Shi	-0.699
4	547	Fukui	Echizen-Shi	-0.713
4	548	Tokyo	Higashimurayama-Shi	-0.721
4	549	Akita	Ugo-Machi Ogachi-Gun	-0.738
4	550	Kyoto	Yamashina-Ku Kyoto-Shi	-0.755
4	551	Shimane	Gotsu-Shi	-0.757
4	552	Chiba	Noda-Shi	-0.764
4	553	Fukui	Fukui-Shi	-0.766
4	554	Kumamoto	Yamaga-Shi	-0.800
4	555	Fukuoka	Hakata-Ku Fukuoka-Shi	-0.827
4	556	Hokkaido	Nishi-Ku Sapporo-Shi	-0.871
4	557	Gumma	Yoshii-cho	-0.877
4	558	Shimane	Matsue-Shi	-0.896
4	559	Osaka	Habikino-Shi	-0.920
4	560	Fukui	Awara-Shi	-0.997
4	561	Aichi	Moriyama-Ku Nagoya-Shi	-1.117
5	1	Mie	Ise-Shi	1.082
5	2	Aichi	Yatomi-Shi	0.495
5	3	Yamagata	Shinjo-Shi	0.439
5	4	Chiba	Sakura-Shi	0.430
5	5	Gifu	Sakahogi-Cho Kamo-Gun	0.428
5	6	Shizuoka	Yaizu-Shi	0.406
5	7	Shizuoka	Fujieda-Shi	0.395
5	8	Shizuoka	Susono-Shi	0.335
5	9	Saitama	Kuki-Shi	0.317
5	10	Aichi	Shinshiro-Shi	0.307
5	11	Yamaguchi	Sanyoonoda-Shi	0.295
5	12	Hiroshima	Fukuyama-Shi	0.262
5	13	Saitama	Shobu-cho	0.238
5	14	Tochigi	Nasukarasuyama-Shi	0.234
5	15	Niigata	Tsubame-Shi	0.227
5	16	Yamaguchi	Yamaguchi-Shi	0.223
5	17	Hyogo	Aioi-Shi	0.214
5	18	Niigata	Sanjo-Shi	0.202
5	19	Iwate	Kanegasaki-Cho Isawa-Gun	0.199
5	20	Niigata	Niigata	0.191
5	21	Aichi	Kitanagoya-Shi	0.187
5	22	Kanagawa	Samukawa-Machi Koza-Gun	0.187
5	23	Gifu	Nakatsugawa-Shi	0.179
5	24	Tokyo	Hino-Shi	0.178
5	25	Tochigi	Yaita-Shi	0.175
5	26	Aichi	Gamagori-Shi	0.161
5	27	Shizuoka	Kosai-Shi	0.156
5	28	Mie	Inabe-Shi	0.150
5	29	Gumma	Maebashi-Shi	0.149
5	30	Saga	Imari-Shi	0.149
5	31	Saitama	Hidaka-Shi	0.148

Industry	Ranking	State	City/Ward/Town/Village	Location effect
5	32	Saga	Kashima-Shi	0.142
5	33	Tokyo	Mizuho-Machi Nishitama-Gun	0.141
5	34	Yamaguchi	Ube-Shi	0.137
5	35	Nagasaki	Higashisonogi-Cho Higashisonogi-Gun	0.135
5	36	Aichi	Tahara-Shi	0.130
5	37	Fukushima	Tamura-Shi	0.129
5	38	Shizuoka	Shimizu-Cho Sunto-Gun	0.128
5	39	Aichi	Nakagawa-Ku Nagoya-Shi	0.122
5	40	Saitama	Yorii-Machi Osato-Gun	0.116
5	41	Aichi	Takahama-Shi	0.114
5	42	Aichi	Nishio-Shi	0.114
5	43	Yamagata	Kaminoyama-Shi	0.112
5	44	Okayama	Tamano-Shi	0.111
5	45	Hyogo	Tarumi-Ku Kobe-Shi	0.105
5	46	Hyogo	Kawanishi-Shi	0.104
5	47	Shizuoka	Makinohara-Shi	0.101
5	48	Toyama	Namerikawa-Shi	0.097
5	49	Saitama	Misato-Machi Kodama-Gun	0.094
5	50	Aichi	Toyokawa-Shi	0.093
5	51	Aichi	Komaki-Shi	0.093
5	52	Saitama	Ina-Machi Kitaadachi-Gun	0.090
5	53	Yamaguchi	Hofu-Shi	0.090
5	54	Toyama	Toyama-Shi	0.090
5	55	Saitama	Konosu-Shi	0.089
5	56	Aichi	Okazaki-Shi	0.087
5	57	Saitama	Higashimatsuyama-Shi	0.087
5	58	Shizuoka	Iwata-Shi	0.086
5	59	Kanagawa	Takatsu-Ku Kawasaki-Shi	0.081
5	60	Aichi	Toyohashi-Shi	0.080
5	61	Shizuoka	Shimada-Shi	0.078
5	62	Gumma	Ora-Machi Ora-Gun	0.071
5	63	Aichi	Hekinan-Shi	0.070
5	64	Shizuoka	Shizuoka	0.070
5	65	Saitama	Kumagaya-Shi	0.069
5	66	Gumma	Fujioka-Shi	0.069
5	67	Hyogo	Hyogo-Ku Kobe-Shi	0.069
5	68	Aichi	Anjo-Shi	0.068
5	69	Oita	Nakatsu-Shi	0.062
5	70	Shizuoka	Fukuroi-Shi	0.057
5	71	Chiba	Matsudo-Shi	0.056
5	72	Hiroshima	Minami-Ku Hiroshima-Shi	0.055
5	73	Shizuoka	Numazu-Shi	0.055
5	74	Kyoto	Kyotango-Shi	0.053
5	75	Tochigi	Nasushiobara-Shi	0.053
5	76	Aichi	Handa-Shi	0.052
5	77	Osaka	Sakai	0.051
5	78	Aichi	Toyota-Shi	0.049
5	79	Hiroshima	Aki-Ku Hiroshima-Shi	0.048
5	80	Okayama	Okayama	0.048
5	81	Oita	Usa-Shi	0.044
5	82	Aichi	Kita-Ku Nagoya-Shi	0.042
5	83	Mie	Kisosaki-Cho Kuwana-Gun	0.040

Industry	Ranking	State	City/Ward/Town/Village	Location effect
5	84	Shizuoka	Gotemba-Shi	0.040
5	85	Hyogo	Amagasaki-Shi	0.039
5	86	Gifu	Gujo-Shi	0.039
5	87	Shizuoka	Kakegawa-Shi	0.038
5	88	Akita	Yokote-Shi	0.032
5	89	Mie	Kameyama-Shi	0.029
5	90	Toyama	Oyabe-Shi	0.027
5	91	Aichi	Ichinomiya-Shi	0.025
5	92	Iwate	Kitakami-Shi	0.025
5	93	Hiroshima	Asakita-Ku Hiroshima-Shi	0.024
5	94	Tochigi	Utsunomiya-Shi	0.021
5	95	Gifu	Gifu-Shi	0.021
5	96	Nagano	Nagano-Shi	0.014
5	97	Gumma	Takasaki-Shi	0.012
5	98	Kyoto	Minami-Ku Kyoto-Shi	0.011
5	99	Nagano	Saku-Shi	0.010
5	100	Hiroshima	Higashihiroshima-Shi	0.010
5	101	Hiroshima	Akitakata-Shi	0.009
5	102	Okayama	Kurashiki-Shi	0.009
5	103	Aichi	Toyoake-Shi	0.008
5	104	Tochigi	Oyama-Shi	0.005
5	105	Chiba	Ichihara-Shi	0.002
5	106	Shizuoka	Hamamatsu	0.000
5	107	Shizuoka	Izunokuni-Shi	0.000
5	108	Gifu	Tarui-Cho Fuwa-Gun	-0.001
5	109	Kanagawa	Midori-Ku Yokohama-Shi	-0.001
5	110	Fukuoka	Miyawaka-Shi	-0.003
5	111	Nagano	Agematsu-Machi Kiso-Gun	-0.005
5	112	Gumma	Midori-Shi	-0.005
5	113	Kanagawa	Ebina-Shi	-0.006
5	114	Aichi	Miyoshi-cho	-0.006
5	115	Saitama	Honjo-Shi	-0.009
5	116	Hiroshima	Kaita-Cho Aki-Gun	-0.010
5	117	Gumma	Ota-Shi	-0.010
5	118	Nagasaki	Nagasaki-Shi	-0.011
5	119	Nagano	Ueda-Shi	-0.011
5	120	Ehime	Imabari-Shi	-0.012
5	121	Aichi	Inuyama-Shi	-0.013
5	122	Kanagawa	Hadano-Shi	-0.014
5	123	Aichi	Chiryu-Shi	-0.014
5	124	Gumma	Oizumi-Machi Ora-Gun	-0.015
5	125	Aichi	Seto-Shi	-0.016
5	126	Tochigi	Ashikaga-Shi	-0.016
5	127	Mie	Iga-Shi	-0.016
5	128	Nagasaki	Isahaya-Shi	-0.017
5	129	Tokyo	Ota-Ku	-0.018
5	130	Fukuoka	Shingu-Machi Kasuya-Gun	-0.019
5	131	Aichi	Minami-Ku Nagoya-Shi	-0.021
5	132	Shizuoka	Fujinomiya-Shi	-0.024
5	133	Kanagawa	Sagamihara	-0.024
5	134	Gifu	Seki-Shi	-0.026
5	135	Kanagawa	Isehara-Shi	-0.027

Industry	Ranking	State	City/Ward/Town/Village	Location effect
5	136	Niigata	Minamiuonuma-Shi	-0.027
5	137	Hyogo	Higashinada-Ku Kobe-Shi	-0.027
5	138	Tokyo	Adachi-Ku	-0.027
5	139	Gumma	Tatebayashi-Shi	-0.027
5	140	Shizuoka	Kikugawa-Shi	-0.033
5	141	Kanagawa	Aikawa-Machi Aiko-Gun	-0.033
5	142	Aichi	Midori-Ku Nagoya-Shi	-0.033
5	143	Fukushima	Iwaki-Shi	-0.034
5	144	Kanagawa	Zama-Shi	-0.039
5	145	Hiroshima	Kure-Shi	-0.039
5	146	Gumma	Tomioka-Shi	-0.041
5	147	Kumamoto	Ozu-Machi Kikuchi-Gun	-0.043
5	148	Yamanashi	Otsuki-Shi	-0.047
5	149	Okayama	Ibara-Shi	-0.047
5	150	Kyoto	Uji-Shi	-0.047
5	151	Aichi	Kota-Cho Nukata-Gun	-0.047
5	152	Gumma	Tamamura-Machi Sawa-Gun	-0.051
5	153	Gifu	Tajimi-Shi	-0.052
5	154	Saitama	Kawagoe-Shi	-0.052
5	155	Miyagi	Kakuda-Shi	-0.053
5	156	Aichi	Atsuta-Ku Nagoya-Shi	-0.054
5	157	Saitama	Ranzan-Machi Hiki-Gun	-0.055
5	158	Okayama	Soja-Shi	-0.057
5	159	Tokyo	Katsushika-Ku	-0.057
5	160	Kanagawa	Totsuka-Ku Yokohama-Shi	-0.061
5	161	Shiga	Omihachiman-Shi	-0.064
5	162	Nagano	Chikuma-Shi	-0.065
5	163	Gifu	Ena-Shi	-0.071
5	164	Kanagawa	Yokosuka-Shi	-0.071
5	165	Tochigi	Sano-Shi	-0.072
5	166	Gifu	Mitake-Cho Kani-Gun	-0.073
5	167	Yamaguchi	Iwakuni-Shi	-0.075
5	168	Tochigi	Shimotsuke-Shi	-0.076
5	169	Nagano	Tatsuno-Machi Kamiina-Gun	-0.076
5	170	Kanagawa	Hiratsuka-Shi	-0.078
5	171	Aichi	Obu-Shi	-0.080
5	172	Saitama	Ageo-Shi	-0.080
5	173	Osaka	Konohana-Ku Osaka-Shi	-0.081
5	174	Hokkaido	Tomakomai-Shi	-0.082
5	175	Mie	Suzuka-Shi	-0.082
5	176	Saitama	Gyoda-Shi	-0.085
5	177	Kanagawa	Kawasaki-Ku Kawasaki-Shi	-0.085
5	178	Hyogo	Akashi-Shi	-0.090
5	179	Shizuoka	Oyama-Cho Sunto-Gun	-0.091
5	180	Aichi	Kariya-Shi	-0.091
5	181	Tochigi	Moka-Shi	-0.092
5	182	Gifu	Kani-Shi	-0.092
5	183	Kanagawa	Fujisawa-Shi	-0.093
5	184	Tokyo	Hamura-Shi	-0.098
5	185	Hyogo	Ono-Shi	-0.101
5	186	Gifu	Yoro-Cho Yoro-Gun	-0.102
5	187	Saitama	Iruma-Shi	-0.103

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5	188	Osaka	Toyonaka-Shi	-0.105
5	189	Fukuoka	Kanda-Machi Miyako-Gun	-0.106
5	190	Nagano	Ina-Shi	-0.107
5	191	Kanagawa	Atsugi-Shi	-0.108
5	192	Mie	Komono-Cho Mie-Gun	-0.109
5	193	Ibaraki	Koga-Shi	-0.112
5	194	Aichi	Kasugai-Shi	-0.112
5	195	Saitama	Toda-Shi	-0.114
5	196	Fukuoka	Miyako-Machi Miyako-Gun	-0.116
5	197	Kanagawa	Kohoku-Ku Yokohama-Shi	-0.116
5	198	Gifu	Ogaki-Shi	-0.117
5	199	Hiroshima	Miyoshi-Shi	-0.120
5	200	Tochigi	Kaminokawa-Machi Kawachi-Gun	-0.124
5	201	Nagano	Suwa-Shi	-0.132
5	202	Gumma	Isesaki-Shi	-0.135
5	203	Yamaguchi	Shimonoseki-Shi	-0.136
5	204	Nagano	Komagane-Shi	-0.136
5	205	Shiga	Koka-Shi	-0.139
5	206	Hyogo	Sanda-Shi	-0.141
5	207	Kanagawa	Ayase-Shi	-0.143
5	208	Hiroshima	Onomichi-Shi	-0.145
5	209	Ibaraki	Hitachi-Shi	-0.146
5	210	Kyoto	Maizuru-Shi	-0.147
5	211	Hiroshima	Fuchu-Cho Aki-Gun	-0.148
5	212	Kyoto	Ukyo-Ku Kyoto-Shi	-0.149
5	213	Gifu	Ibigawa-Cho Ibi-Gun	-0.149
5	214	Aichi	Inazawa-Shi	-0.150
5	215	Yamaguchi	Kudamatsu-Shi	-0.152
5	216	Gifu	Kakamigahara-Shi	-0.155
5	217	Shiga	Konan-Shi	-0.158
5	218	Aichi	Tempaku-Ku Nagoya-Shi	-0.161
5	219	Shiga	Kusatsu-Shi	-0.166
5	220	Yamagata	Tsuruoka-Shi	-0.168
5	221	Kanagawa	Yamato-Shi	-0.170
5	222	Fukushima	Tamakawa-Mura Ishikawa-Gun	-0.172
5	223	Tochigi	Iwafune-Machi Shimotsuga-Gun	-0.177
5	224	Osaka	Neyagawa-Shi	-0.178
5	225	Aichi	Higashiura-Cho Chita-Gun	-0.180
5	226	Hokkaido	Nishi-Ku Sapporo-Shi	-0.180
5	227	Gumma	Kiryu-Shi	-0.181
5	228	Shizuoka	Fuji-Shi	-0.183
5	229	Tokyo	Akishima-Shi	-0.184
5	230	Kanagawa	Kanazawa-Ku Yokohama-Shi	-0.185
5	231	Kanagawa	Tsurumi-Ku Yokohama-Shi	-0.187
5	232	Nagano	Okaya-Shi	-0.195
5	233	Aichi	Minato-Ku Nagoya-Shi	-0.200
5	234	Saitama	Kawaguchi-Shi	-0.210
5	235	Saitama	Sayama-Shi	-0.227
5	236	Hyogo	Itami-Shi	-0.235
5	237	Kanagawa	Kamakura-Shi	-0.236
5	238	Gumma	Shinto-Mura Kitagumma-Gun	-0.239
5	239	Hyogo	Himeji-Shi	-0.240

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5	240	Ishikawa	Hakusan-Shi	-0.241
5	241	Saitama	Saitama	-0.254
5	242	Tochigi	Haga-Machi Haga-Gun	-0.272
5	243	Hyogo	Kato-Shi	-0.275
5	244	Tokyo	Hachioji-Shi	-0.277
5	245	Kumamoto	Koshi-Shi	-0.278
5	246	Miyazaki	Miyazaki-Shi	-0.279
5	247	Osaka	Higashiosaka-Shi	-0.285
5	248	Nagano	Miyada-Mura Kamiina-Gun	-0.290
5	249	Saitama	Wako-Shi	-0.304
5	250	Kumamoto	Nagasu-Machi Tamana-Gun	-0.323
5	251	Kumamoto	Kikuchi-Shi	-0.325
5	252	Hyogo	Kasai-Shi	-0.327
5	253	Shizuoka	Omaezaki-Shi	-0.328
5	254	Tochigi	Kanuma-Shi	-0.330
5	255	Kanagawa	Nakahara-Ku Kawasaki-Shi	-0.334
5	256	Mie	Tsu-Shi	-0.343
5	257	Saitama	Chichibu-Shi	-0.367
5	258	Tokyo	Itabashi-Ku	-0.370
5	259	Hokkaido	Chitose-Shi	-0.375
5	260	Nagano	Komoro-Shi	-0.381
5	261	Saitama	Fukaya-Shi	-0.382
5	262	Hyogo	Tatsuno-Shi	-0.439
5	263	Iwate	Oshu-Shi	-0.456
5	264	Aichi	Oguchi-Cho Niwa-Gun	-0.457
5	265	Fukuoka	Buzen-Shi	-0.494
5	266	Yamagata	Sagae-Shi	-0.559
5	267	Tochigi	Sakura-Shi	-0.560
5	268	Saitama	Asaka-Shi	-0.563
5	269	Tokyo	Fussa-Shi	-0.581
5	270	Okayama	Mimasaka-Shi	-0.757
5	271	Osaka	Yao-Shi	-0.800
6	1	Gifu	Ono-Cho Ibi-Gun	1.250
6	2	Ishikawa	Kahoku-Shi	1.197
6	3	Okayama	Ibara-Shi	0.899
6	4	Gifu	Yoro-Cho Yoro-Gun	0.857
6	5	Nara	Yamatotakada-Shi	0.818
6	6	Ibaraki	Naka-Shi	0.777
6	7	Hiroshima	Fuchu-Shi	0.771
6	8	Tottori	Iwami-Cho Iwami-Gun	0.742
6	9	Tokushima	Naka-Cho Naka-Gun	0.741
6	10	Wakayama	Kainan-Shi	0.690
6	11	Aichi	Tokoname-Shi	0.679
6	12	Ibaraki	Hitachiomiya-Shi	0.655
6	13	Kagawa	Shodoshima-Cho Shozu-Gun	0.628
6	14	Gifu	Sekigahara-Cho Fuwa-Gun	0.597
6	15	Ehime	Ozu-Shi	0.560
6	16	Fukuoka	Nogata-Shi	0.554
6	17	Hiroshima	Kitahiroshima-Cho Yamagata-Gun	0.523
6	18	Okinawa	Nanjo-Shi	0.514
6	19	Oita	Taketa-Shi	0.485
6	20	Fukushima	Shirakawa-Shi	0.427

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	21	Ibaraki	Ibaraki-Machi Higashiibaraki-Gun	0.401
6	22	Hyogo	Kamikawa-Cho Kanzaki-Gun	0.399
6	23	Fukuoka	Wakamatsu-Ku Kitakyushu-Shi	0.395
6	24	Ehime	Iyo-Shi	0.392
6	25	Shiga	Takashima-Shi	0.389
6	26	Nagano	Komagane-Shi	0.387
6	27	Hyogo	Yabu-Shi	0.383
6	28	Chiba	Choshi-Shi	0.378
6	29	Tokyo	Ome-Shi	0.378
6	30	Osaka	Higashiyodogawa-Ku Osaka-Shi	0.373
6	31	Shizuoka	Mori-Machi Shuchi-Gun	0.368
6	32	Fukushima	Aizubange-Machi Kawanuma-Gun	0.364
6	33	Chiba	Shiroi-Shi	0.359
6	34	Fukuoka	Nishi-Ku Fukuoka-Shi	0.357
6	35	Kanagawa	Isogo-Ku Yokohama-Shi	0.354
6	36	Aichi	Komaki-Shi	0.354
6	37	Kyoto	Kyotanabe-Shi	0.351
6	38	Hokkaido	Toyako-Cho Abuta-Gun	0.343
6	39	Nagano	Toyoka-Mura Shimoina-Gun	0.343
6	40	Tokyo	Chofu-Shi	0.336
6	41	Niigata	Murakami-Shi	0.336
6	42	Ibaraki	Itako-Shi	0.335
6	43	Niigata	Sado-Shi	0.335
6	44	Chiba	Sakae-Machi Imba-Gun	0.335
6	45	Shimane	Masuda-Shi	0.330
6	46	Nara	Kashiba-Shi	0.325
6	47	Ishikawa	Kanazawa-Shi	0.321
6	48	Saitama	Matsubushi-Machi Kitakatsushika-Gun	0.317
6	49	Aichi	Toyoake-Shi	0.316
6	50	Yamanashi	Fuefuki-Shi	0.316
6	51	Mie	Kuwana-Shi	0.315
6	52	Osaka	Ikeda-Shi	0.314
6	53	Niigata	Tainai-Shi	0.314
6	54	Shimane	Gotsu-Shi	0.303
6	55	Tokyo	Meguro-Ku	0.302
6	56	Hokkaido	Higashi-Ku Sapporo-Shi	0.299
6	57	Fukui	Tsuruga-Shi	0.293
6	58	Kanagawa	Ayase-Shi	0.291
6	59	Fukushima	Tamura-Shi	0.291
6	60	Kanagawa	Odawara-Shi	0.290
6	61	Wakayama	Kamitonda-Cho Nishimuro-Gun	0.289
6	62	Chiba	Narita-Shi	0.288
6	63	Toyama	Himi-Shi	0.288
6	64	Tokyo	Kodaira-Shi	0.285
6	65	Niigata	Shibata-Shi	0.283
6	66	Niigata	Kashiwazaki-Shi	0.282
6	67	Niigata	Ojiya-Shi	0.281
6	68	Ishikawa	Kawakita-Machi Nomi-Gun	0.279
6	69	Aichi	Nakamura-Ku Nagoya-Shi	0.278
6	70	Niigata	Gosen-Shi	0.277
6	71	Yamaguchi	Shunan-Shi	0.277
6	72	Tokyo	Taito-Ku	0.276

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	73	Kanagawa	Seya-Ku Yokohama-Shi	0.274
6	74	Shizuoka	Gotemba-Shi	0.274
6	75	Toyama	Nanto-Shi	0.272
6	76	Kanagawa	Midori-Ku Yokohama-Shi	0.271
6	77	Tochigi	Kanuma-Shi	0.270
6	78	Niigata	Tokamachi-Shi	0.269
6	79	Niigata	Uonuma-Shi	0.268
6	80	Kyoto	Fukuchiyama-Shi	0.267
6	81	Ehime	Yawatahama-Shi	0.267
6	82	Hyogo	Asago-Shi	0.265
6	83	Miyazaki	Saito-Shi	0.261
6	84	Shizuoka	Yoshida-Cho Haibara-Gun	0.260
6	85	Mie	Komono-Cho Mie-Gun	0.259
6	86	Nagano	Tatsuno-Machi Kamiina-Gun	0.255
6	87	Chiba	Narashino-Shi	0.253
6	88	Kagawa	Sakaide-Shi	0.252
6	89	Osaka	Izumiotsu-Shi	0.251
6	90	Niigata	Tsubame-Shi	0.250
6	91	Okayama	Tamano-Shi	0.249
6	92	Saitama	Kisai-cho	0.248
6	93	Saitama	Kuki-Shi	0.245
6	94	Ibaraki	Yachiyo-Machi Yuki-Gun	0.245
6	95	Gumma	Annaka-Shi	0.244
6	96	Kanagawa	Hodogaya-Ku Yokohama-Shi	0.243
6	97	Mie	Ise-Shi	0.242
6	98	Aichi	Tahara-Shi	0.239
6	99	Tokyo	Mitaka-Shi	0.239
6	100	Aichi	Hekinan-Shi	0.239
6	101	Iwate	Kamaishi-Shi	0.238
6	102	Ehime	Matsuyama-Shi	0.238
6	103	Kyoto	Fushimi-Ku Kyoto-Shi	0.236
6	104	Nagano	Saku-Shi	0.234
6	105	Kagoshima	Satsuma-Cho Satsuma-Gun	0.231
6	106	Shizuoka	Makinohara-Shi	0.229
6	107	Kyoto	Nagaokakyo-Shi	0.228
6	108	Osaka	Suita-Shi	0.228
6	109	Saitama	Honjo-Shi	0.227
6	110	Ibaraki	Joso-Shi	0.226
6	111	Hokkaido	Date-Shi	0.225
6	112	Aichi	Aisai-Shi	0.224
6	113	Hyogo	Kami-Cho Mikata-Gun	0.224
6	114	Kagoshima	Aira-cho	0.224
6	115	Chiba	Chonan-Machi Chosei-Gun	0.224
6	116	Hokkaido	Toyohira-Ku Sapporo-Shi	0.223
6	117	Tokyo	Higashimurayama-Shi	0.223
6	118	Kanagawa	Chigasaki-Shi	0.223
6	119	Saga	Takeo-Shi	0.222
6	120	Hyogo	Tatsuno-Shi	0.219
6	121	Osaka	Takatsuki-Shi	0.219
6	122	Niigata	Joetsu-Shi	0.218
6	123	Chiba	Sammu-Shi	0.216
6	124	Wakayama	Tanabe-Shi	0.215

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	125	Chiba	Asahi-Shi	0.215
6	126	Hokkaido	Nishi-Ku Sapporo-Shi	0.214
6	127	Okinawa	Naha-Shi	0.213
6	128	Shizuoka	Nagaizumi-Cho Sunto-Gun	0.211
6	129	Osaka	Habikino-Shi	0.211
6	130	Yamanashi	Nirasaki-Shi	0.206
6	131	Saitama	Kazo-Shi	0.205
6	132	Tokyo	Inagi-Shi	0.205
6	133	Aichi	Kitanagoya-Shi	0.204
6	134	Hyogo	Takarazuka-Shi	0.204
6	135	Aichi	Nishi-Ku Nagoya-Shi	0.203
6	136	Ehime	Toon-Shi	0.203
6	137	Aichi	Gamagori-Shi	0.200
6	138	Kyoto	Nantan-Shi	0.197
6	139	Mie	Yokkaichi-Shi	0.196
6	140	Iwate	Yahaba-Cho Shiwa-Gun	0.195
6	141	Gifu	Ampachi-Cho Ampachi-Gun	0.193
6	142	Saitama	Tokorozawa-Shi	0.192
6	143	Gifu	Mizuho-Shi	0.192
6	144	Gifu	Seki-Shi	0.192
6	145	Mie	Matsusaka-Shi	0.191
6	146	Aichi	Minami-Ku Nagoya-Shi	0.190
6	147	Shiga	Omihachiman-Shi	0.190
6	148	Saitama	Toda-Shi	0.187
6	149	Aomori	Mutsu-Shi	0.186
6	150	Kyoto	Yawata-Shi	0.186
6	151	Ibaraki	Miho-Mura Inashiki-Gun	0.186
6	152	Aichi	Kasuga-mura	0.186
6	153	Miyagi	Kakuda-Shi	0.185
6	154	Gumma	Tatebayashi-Shi	0.184
6	155	Aichi	Anjo-Shi	0.184
6	156	Toyama	Imizu-Shi	0.183
6	157	Kanagawa	Nakahara-Ku Kawasaki-Shi	0.183
6	158	Nagano	Iida-Shi	0.182
6	159	Oita	Bungotakada-Shi	0.182
6	160	Tokyo	Katsushika-Ku	0.181
6	161	Kumamoto	Kosa-Machi Kamimashiki-Gun	0.181
6	162	Saga	Kanzaki-Shi	0.179
6	163	Aichi	Chikusa-Ku Nagoya-Shi	0.179
6	164	Fukuoka	Chuo-Ku Fukuoka-Shi	0.178
6	165	Hyogo	Kita-Ku Kobe-Shi	0.178
6	166	Fukui	Echizen-Shi	0.177
6	167	Tokyo	Mizuho-Machi Nishitama-Gun	0.177
6	168	Osaka	Matsubara-Shi	0.176
6	169	Ibaraki	Hitachinaka-Shi	0.174
6	170	Osaka	Miyakojima-Ku Osaka-Shi	0.173
6	171	Nara	Kashihara-Shi	0.173
6	172	Shizuoka	Fujieda-Shi	0.173
6	173	Saitama	Yoshikawa-Shi	0.172
6	174	Gifu	Kaizu-Shi	0.172
6	175	Kanagawa	Totsuka-Ku Yokohama-Shi	0.170
6	176	Kyoto	Minami-Ku Kyoto-Shi	0.170

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	177	Fukuoka	Yahatanishi-Ku Kitakyushu-Shi	0.170
6	178	Mie	Suzuka-Shi	0.170
6	179	Tokyo	Shinagawa-Ku	0.169
6	180	Kyoto	Kyotamba-Cho Funai-Gun	0.169
6	181	Nagano	Ueda-Shi	0.168
6	182	Kanagawa	Ebina-Shi	0.168
6	183	Kumamoto	Yamaga-Shi	0.167
6	184	Tokyo	Tachikawa-Shi	0.166
6	185	Hyogo	Shinonsen-Cho Mikata-Gun	0.165
6	186	Fukushima	Motomiya-Shi	0.165
6	187	Hyogo	Ono-Shi	0.164
6	188	Shizuoka	Mishima-Shi	0.164
6	189	Hyogo	Takasago-Shi	0.164
6	190	Nagasaki	Sasebo-Shi	0.163
6	191	Aichi	Inuyama-Shi	0.163
6	192	Tokyo	Nerima-Ku	0.163
6	193	Okayama	Kurashiki-Shi	0.163
6	194	Shiga	Ritto-Shi	0.162
6	195	Shiga	Moriyama-Shi	0.161
6	196	Ishikawa	Hodatsushimizu-Cho Hakui-Gun	0.161
6	197	Chiba	Kashiwa-Shi	0.160
6	198	Tokyo	Hachioji-Shi	0.159
6	199	Akita	Yuzawa-Shi	0.159
6	200	Kumamoto	Nishihara-Mura Aso-Gun	0.159
6	201	Aichi	Handa-Shi	0.159
6	202	Miyagi	Osaki-Shi	0.157
6	203	Miyagi	Taiwa-Cho Kurokawa-Gun	0.157
6	204	Hyogo	Tamba-Shi	0.157
6	205	Kyoto	Kumiyama-Cho Kuse-Gun	0.156
6	206	Shizuoka	Kikugawa-Shi	0.156
6	207	Hyogo	Miki-Shi	0.156
6	208	Fukuoka	Chikushino-Shi	0.155
6	209	Saitama	Kawagoe-Shi	0.155
6	210	Ehime	Imabari-Shi	0.155
6	211	Aichi	Nishio-Shi	0.155
6	212	Gumma	Isesaki-Shi	0.154
6	213	Ibaraki	Hitachiota-Shi	0.154
6	214	Saitama	Kawaguchi-Shi	0.153
6	215	Tochigi	Shimotsuke-Shi	0.153
6	216	Saitama	Sugito-Machi Kitakatsushika-Gun	0.153
6	217	Tokyo	Machida-Shi	0.152
6	218	Tokyo	Musashimurayama-Shi	0.152
6	219	Tokyo	Chuo-Ku	0.152
6	220	Saitama	Kasukabe-Shi	0.151
6	221	Kumamoto	Ueki-cho	0.150
6	222	Saitama	Hasuda-Shi	0.150
6	223	Hyogo	Itami-Shi	0.149
6	224	Hokkaido	Ishikari-Shi	0.149
6	225	Fukuoka	Asakura-Shi	0.149
6	226	Fukuoka	Omuta-Shi	0.149
6	227	Saitama	Hanyu-Shi	0.148
6	228	Saitama	Higashimatsuyama-Shi	0.148

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	229	Tokyo	Hamura-Shi	0.148
6	230	Ibaraki	Goka-Machi Sashima-Gun	0.146
6	231	Kagawa	Tadotsu-Cho Nakatado-Gun	0.146
6	232	Okayama	Tsuyama-Shi	0.146
6	233	Nara	Yamatokoriyama-Shi	0.144
6	234	Saitama	Ina-Machi Kitaadachi-Gun	0.144
6	235	Aichi	Kiyosu-Shi	0.143
6	236	Iwate	Morioka-Shi	0.141
6	237	Chiba	Matsudo-Shi	0.141
6	238	Kumamoto	Uki-Shi	0.139
6	239	Saitama	Iruma-Shi	0.138
6	240	Saitama	Yoshimi-Machi Hiki-Gun	0.138
6	241	Tokyo	Toshima-Ku	0.138
6	242	Aichi	Jimokuji-cho	0.138
6	243	Tochigi	Nikko-Shi	0.137
6	244	Okayama	Satosho-Cho Asakuchi-Gun	0.136
6	245	Osaka	Higashinari-Ku Osaka-Shi	0.134
6	246	Tochigi	Ashikaga-Shi	0.134
6	247	Saitama	Miyoshi-Machi Iruma-Gun	0.134
6	248	Hokkaido	Eniwa-Shi	0.133
6	249	Aomori	Misawa-Shi	0.133
6	250	Miyagi	Rifu-Cho Miyagi-Gun	0.133
6	251	Tokyo	Higashikurume-Shi	0.133
6	252	Hyogo	Akashi-Shi	0.132
6	253	Tokyo	Nakano-Ku	0.132
6	254	Tokyo	Sumida-Ku	0.131
6	255	Gumma	Fujioka-Shi	0.131
6	256	Yamagata	Oe-Machi Nishimurayama-Gun	0.131
6	257	Mie	Iga-Shi	0.130
6	258	Hyogo	Nishinomiya-Shi	0.130
6	259	Tochigi	Sano-Shi	0.130
6	260	Shizuoka	Kakegawa-Shi	0.130
6	261	Yamagata	Tsuruoka-Shi	0.130
6	262	Osaka	Kishiwada-Shi	0.129
6	263	Gumma	Ota-Shi	0.129
6	264	Osaka	Sakai	0.129
6	265	Shizuoka	Susono-Shi	0.129
6	266	Fukuoka	Kokurakita-Ku Kitakyushu-Shi	0.128
6	267	Fukuoka	Kasuya-Machi Kasuya-Gun	0.128
6	268	Saitama	Wako-Shi	0.127
6	269	Aichi	Inazawa-Shi	0.126
6	270	Hokkaido	Iwamizawa-Shi	0.125
6	271	Nagasaki	Unzen-Shi	0.124
6	272	Hyogo	Sanda-Shi	0.124
6	273	Tokyo	Hino-Shi	0.122
6	274	Kagoshima	Makurazaki-Shi	0.122
6	275	Saga	Karatsu-Shi	0.121
6	276	Saitama	Warabi-Shi	0.121
6	277	Osaka	Hirano-Ku Osaka-Shi	0.121
6	278	Kanagawa	Kawasaki-Ku Kawasaki-Shi	0.121
6	279	Fukuoka	Yame-Shi	0.120
6	280	Nagasaki	Nagasaki-Shi	0.120

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6	281	Shizuoka	Iwata-Shi	0.120
6	282	Miyazaki	Shintomi-Cho Koyu-Gun	0.120
6	283	Hiroshima	Onomichi-Shi	0.120
6	284	Hyogo	Tarumi-Ku Kobe-Shi	0.119
6	285	Saga	Kiyama-Cho Miyaki-Gun	0.119
6	286	Chiba	Katori-Shi	0.119
6	287	Tochigi	Nasushiobara-Shi	0.119
6	288	Ibaraki	Koga-Shi	0.118
6	289	Miyagi	Shibata-Machi Shibata-Gun	0.118
6	290	Ehime	Uwajima-Shi	0.117
6	291	Tokyo	Fussa-Shi	0.117
6	292	Ibaraki	Kamisu-Shi	0.116
6	293	Tokushima	Awa-Shi	0.116
6	294	Tokyo	Bunkyo-Ku	0.116
6	295	Mie	Nabari-Shi	0.116
6	296	Aomori	Gonohe-Machi Sannohe-Gun	0.116
6	297	Kyoto	Yamashina-Ku Kyoto-Shi	0.116
6	298	Iwate	Karumai-Machi Kunohe-Gun	0.115
6	299	Tokyo	Minato-Ku	0.115
6	300	Aomori	Kuroishi-Shi	0.114
6	301	Shizuoka	Oyama-Cho Sunto-Gun	0.114
6	302	Nagano	Matsumoto-Shi	0.113
6	303	Toyama	Tonami-Shi	0.112
6	304	Ibaraki	Kasumigaura-Shi	0.112
6	305	Kyoto	Nakagyo-Ku Kyoto-Shi	0.111
6	306	Kanagawa	Atsugi-Shi	0.111
6	307	Okinawa	Urasoe-Shi	0.111
6	308	Nagano	Nakano-Shi	0.110
6	309	Nagasaki	Matsura-Shi	0.110
6	310	Tottori	Hokuei-Cho Tohaku-Gun	0.110
6	311	Miyagi	Shiogama-Shi	0.110
6	312	Chiba	Chiba	0.109
6	313	Gumma	Shibukawa-Shi	0.108
6	314	Aichi	Tobishima-Mura Ama-Gun	0.108
6	315	Ishikawa	Hakui-Shi	0.108
6	316	Hiroshima	Fukuyama-Shi	0.107
6	317	Kagoshima	Kagoshima-Shi	0.107
6	318	Kanagawa	Isehara-Shi	0.106
6	319	Hokkaido	Tomakomai-Shi	0.105
6	320	Gumma	Takasaki-Shi	0.105
6	321	Gifu	Gifu-Shi	0.104
6	322	Fukuoka	Munakata-Shi	0.104
6	323	Hiroshima	Minami-Ku Hiroshima-Shi	0.103
6	324	Saga	Yoshinogari-Cho Kanzaki-Gun	0.103
6	325	Iwate	Ichinoseki-Shi	0.103
6	326	Hokkaido	Hokuto-Shi	0.103
6	327	Gumma	Meiwa-Machi Ora-Gun	0.102
6	328	Fukuoka	Shime-Machi Kasuya-Gun	0.102
6	329	Tochigi	Oyama-Shi	0.102
6	330	Hyogo	Nishiwaki-Shi	0.102
6	331	Toyama	Takaoka-Shi	0.101
6	332	Saitama	Konosu-Shi	0.100

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6	333	Kagoshima	Izumi-Shi	0.100
6	334	Gumma	Maebashi-Shi	0.098
6	335	Ishikawa	Hakusan-Shi	0.098
6	336	Gumma	Midori-Shi	0.097
6	337	Osaka	Nishinari-Ku Osaka-Shi	0.096
6	338	Miyagi	Kesennuma-Shi	0.096
6	339	Hyogo	Nada-Ku Kobe-Shi	0.095
6	340	Tochigi	Tochigi-Shi	0.095
6	341	Miyagi	Kurihara-Shi	0.095
6	342	Kanagawa	Zama-Shi	0.094
6	343	Hiroshima	Nishi-Ku Hiroshima-Shi	0.094
6	344	Kanagawa	Takatsu-Ku Kawasaki-Shi	0.093
6	345	Chiba	Funabashi-Shi	0.093
6	346	Toyama	Toyama-Shi	0.093
6	347	Mie	Tsu-Shi	0.093
6	348	Aichi	Kozakai-cho	0.093
6	349	Fukuoka	Kurume-Shi	0.093
6	350	Osaka	Yao-Shi	0.093
6	351	Osaka	Toyonaka-Shi	0.092
6	352	Hyogo	Amagasaki-Shi	0.092
6	353	Nagano	Nagano-Shi	0.091
6	354	Fukushima	Nishiaizu-Machi Yama-Gun	0.091
6	355	Niigata	Nagaoka-Shi	0.090
6	356	Ehime	Niihama-Shi	0.089
6	357	Kochi	Kami-Shi	0.089
6	358	Okinawa	Nishihara-Cho Nakagami-Gun	0.088
6	359	Tokyo	Tama-Shi	0.088
6	360	Tokushima	Anan-Shi	0.088
6	361	Chiba	Ichikawa-Shi	0.088
6	362	Kyoto	Ukyo-Ku Kyoto-Shi	0.088
6	363	Osaka	Neyagawa-Shi	0.087
6	364	Kagoshima	Minamisatsuma-Shi	0.086
6	365	Osaka	Tsurumi-Ku Osaka-Shi	0.086
6	366	Aichi	Kariya-Shi	0.086
6	367	Gumma	Oizumi-Machi Ora-Gun	0.085
6	368	Gumma	Tamamura-Machi Sawa-Gun	0.085
6	369	Yamaguchi	Shimonoseki-Shi	0.085
6	370	Hyogo	Sumoto-Shi	0.085
6	371	Saitama	Kawajima-Machi Hiki-Gun	0.084
6	372	Aichi	Obu-Shi	0.084
6	373	Saitama	Niiza-Shi	0.084
6	374	Osaka	Hirakata-Shi	0.084
6	375	Saitama	Gyoda-Shi	0.083
6	376	Kanagawa	Hadano-Shi	0.082
6	377	Hokkaido	Obihiro-Shi	0.082
6	378	Tokushima	Mima-Shi	0.082
6	379	Aichi	Toyota-Shi	0.082
6	380	Tokyo	Kita-Ku	0.082
6	381	Osaka	Asahi-Ku Osaka-Shi	0.080
6	382	Saitama	Tsurugashima-Shi	0.080
6	383	Ibaraki	Tsukuba-Shi	0.080
6	384	Tokyo	Suginami-Ku	0.079

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6	385	Miyagi	Shiroishi-Shi	0.079
6	386	Aichi	Kasugai-Shi	0.078
6	387	Kanagawa	Samukawa-Machi Koza-Gun	0.078
6	388	Kanagawa	Yamato-Shi	0.078
6	389	Kagawa	Mitoyo-Shi	0.077
6	390	Okayama	Okayama	0.077
6	391	Fukuoka	Fukutsu-Shi	0.076
6	392	Nagano	Suwa-Shi	0.075
6	393	Nara	Nara-Shi	0.075
6	394	Fukui	Fukui-Shi	0.074
6	395	Fukuoka	Kokuraminami-Ku Kitakyushu-Shi	0.074
6	396	Hokkaido	Mori-Machi Kayabe-Gun	0.073
6	397	Kanagawa	Hiratsuka-Shi	0.073
6	398	Okayama	Maniwa-Shi	0.072
6	399	Osaka	Tondabayashi-Shi	0.072
6	400	Tokyo	Chiyoda-Ku	0.072
6	401	Kanagawa	Kohoku-Ku Yokohama-Shi	0.072
6	402	Chiba	Yokoshibahikari-Machi Sambu-Gun	0.072
6	403	Shizuoka	Fuji-Shi	0.072
6	404	Shizuoka	Fukuroi-Shi	0.072
6	405	Ehime	Tobe-Cho Iyo-Gun	0.072
6	406	Gifu	Tarui-Cho Fuwa-Gun	0.071
6	407	Aomori	Towada-Shi	0.071
6	408	Tokyo	Ota-Ku	0.071
6	409	Aomori	Hirakawa-Shi	0.070
6	410	Nagano	Ina-Shi	0.070
6	411	Osaka	Nishiyodogawa-Ku Osaka-Shi	0.070
6	412	Saitama	Saitama	0.070
6	413	Aichi	Higashi-Ku Nagoya-Shi	0.069
6	414	Hokkaido	Kitami-Shi	0.068
6	415	Chiba	Noda-Shi	0.067
6	416	Iwate	Hachimantai-Shi	0.066
6	417	Hokkaido	Chuo-Ku Sapporo-Shi	0.066
6	418	Osaka	Ibaraki-Shi	0.065
6	419	Chiba	Kamagaya-Shi	0.065
6	420	Osaka	Tadaoka-Cho Semboku-Gun	0.065
6	421	Fukui	Awara-Shi	0.064
6	422	Kyoto	Uji-Shi	0.064
6	423	Iwate	Yamada-Machi Shimohei-Gun	0.064
6	424	Hokkaido	Hakodate-Shi	0.064
6	425	Tochigi	Moka-Shi	0.063
6	426	Fukui	Katsuyama-Shi	0.063
6	427	Hiroshima	Naka-Ku Hiroshima-Shi	0.063
6	428	Kyoto	Ujitawara-Cho Tsuzuki-Gun	0.062
6	429	Nagasaki	Isahaya-Shi	0.062
6	430	Iwate	Takizawa-Mura Iwate-Gun	0.061
6	431	Gumma	Kiryu-Shi	0.061
6	432	Aomori	Takko-Machi Sannohe-Gun	0.061
6	433	Kanagawa	Asahi-Ku Yokohama-Shi	0.060
6	434	Aomori	Sannohe-Machi Sannohe-Gun	0.060
6	435	Okayama	Setochi-Shi	0.060
6	436	Shizuoka	Shimada-Shi	0.060

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	437	Kanagawa	Fujisawa-Shi	0.060
6	438	Hokkaido	Otaru-Shi	0.059
6	439	Aichi	Toyohashi-Shi	0.059
6	440	Kumamoto	Yatsushiro-Shi	0.058
6	441	Fukushima	Aizuwakamatsu-Shi	0.056
6	442	Saitama	Kamisato-Machi Kodama-Gun	0.055
6	443	Aomori	Nambu-Cho Sannohe-Gun	0.055
6	444	Osaka	Joto-Ku Osaka-Shi	0.054
6	445	Okayama	Kasaoka-Shi	0.054
6	446	Yamagata	Kaminoyama-Shi	0.053
6	447	Ibaraki	Chikusei-Shi	0.053
6	448	Hokkaido	Memuro-Cho Kasai-Gun	0.052
6	449	Fukushima	Fukushima-Shi	0.051
6	450	Saitama	Koshigaya-Shi	0.051
6	451	Ehime	Shikokuchuo-Shi	0.050
6	452	Gifu	Kasamatsu-Cho Hashima-Gun	0.050
6	453	Tochigi	Ohira-cho	0.050
6	454	Aichi	Minato-Ku Nagoya-Shi	0.049
6	455	Aichi	Konan-Shi	0.049
6	456	Aichi	Tokai-Shi	0.049
6	457	Iwate	Kuzumaki-Machi Iwate-Gun	0.047
6	458	Chiba	Yachiyo-Shi	0.047
6	459	Iwate	Ichinohe-Machi Ninohe-Gun	0.047
6	460	Kagoshima	Gamo-cho	0.046
6	461	Shiga	Ryuo-Cho Gamo-Gun	0.045
6	462	Fukuoka	Onojo-Shi	0.045
6	463	Aichi	Oguchi-Cho Niwa-Gun	0.045
6	464	Saitama	Ageo-Shi	0.044
6	465	Shiga	Kusatsu-Shi	0.044
6	466	Nagasaki	Minamishimabara-Shi	0.043
6	467	Akita	Kazuno-Shi	0.043
6	468	Tokyo	Koto-Ku	0.043
6	469	Miyazaki	Kobayashi-Shi	0.043
6	470	Shizuoka	Hamamatsu	0.043
6	471	Kanagawa	Aikawa-Machi Aiko-Gun	0.043
6	472	Tochigi	Mibu-Machi Shimotsuga-Gun	0.041
6	473	Saitama	Soka-Shi	0.041
6	474	Kanagawa	Kanagawa-Ku Yokohama-Shi	0.040
6	475	Wakayama	Katsuragi-Cho Ito-Gun	0.040
6	476	Yamanashi	Kai-Shi	0.040
6	477	Saga	Kashima-Shi	0.040
6	478	Gifu	Godo-Cho Ampachi-Gun	0.040
6	479	Ibaraki	Tsuchiura-Shi	0.039
6	480	Kanagawa	Minami-Ku Yokohama-Shi	0.039
6	481	Tokyo	Itabashi-Ku	0.039
6	482	Nagasaki	Kawatana-Cho Higashisonogi-Gun	0.038
6	483	Osaka	Taisho-Ku Osaka-Shi	0.036
6	484	Tokyo	Shinjuku-Ku	0.036
6	485	Hyogo	Hyogo-Ku Kobe-Shi	0.036
6	486	Saitama	Sayama-Shi	0.035
6	487	Kanagawa	Sagamihara	0.035
6	488	Chiba	Tomisato-Shi	0.035

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	489	Tokyo	Akishima-Shi	0.035
6	490	Hyogo	Higashinada-Ku Kobe-Shi	0.034
6	491	Kyoto	Joyo-Shi	0.034
6	492	Yamaguchi	Suooshima-Cho Oshima-Gun	0.034
6	493	Ibaraki	Bando-Shi	0.033
6	494	Yamanashi	Fujiyoshida-Shi	0.033
6	495	Tochigi	Utsunomiya-Shi	0.033
6	496	Yamagata	Tendo-Shi	0.032
6	497	Kagoshima	Tarumizu-Shi	0.032
6	498	Gifu	Tajimi-Shi	0.031
6	499	Shizuoka	Numazu-Shi	0.031
6	500	Ibaraki	Namegata-Shi	0.030
6	501	Niigata	Mitsuke-Shi	0.030
6	502	Kochi	Otoyo-Cho Nagaoka-Gun	0.029
6	503	Saga	Tosu-Shi	0.029
6	504	Shiga	Higashiomi-Shi	0.029
6	505	Niigata	Agano-Shi	0.028
6	506	Tokushima	Tokushima-Shi	0.028
6	507	Gumma	Tomioka-Shi	0.028
6	508	Shiga	Nagahama-Shi	0.028
6	509	Aichi	Okazaki-Shi	0.028
6	510	Osaka	Kadoma-Shi	0.027
6	511	Kumamoto	Amakusa-Shi	0.027
6	512	Osaka	Kaizuka-Shi	0.026
6	513	Fukushima	Sukagawa-Shi	0.025
6	514	Kagawa	Sanuki-Shi	0.025
6	515	Aichi	Toyokawa-Shi	0.024
6	516	Miyagi	Onagawa-Cho Oshika-Gun	0.024
6	517	Saitama	Asaka-Shi	0.024
6	518	Miyazaki	Kawaminami-Cho Koyu-Gun	0.024
6	519	Aichi	Taketoyo-Cho Chita-Gun	0.023
6	520	Hyogo	Nagata-Ku Kobe-Shi	0.023
6	521	Fukuoka	Iizuka-Shi	0.023
6	522	Hokkaido	Betsukai-Cho Notsuke-Gun	0.022
6	523	Hiroshima	Miyoshi-Shi	0.022
6	524	Toyama	Uozu-Shi	0.022
6	525	Fukushima	Koriyama-Shi	0.020
6	526	Chiba	Sakura-Shi	0.020
6	527	Iwate	Hanamaki-Shi	0.020
6	528	Hyogo	Kato-Shi	0.020
6	529	Tokushima	Naruto-Shi	0.020
6	530	Fukushima	Date-Shi	0.019
6	531	Toyama	Kurobe-Shi	0.018
6	532	Aichi	Moriyama-Ku Nagoya-Shi	0.018
6	533	Kochi	Nankoku-Shi	0.017
6	534	Gifu	Hashima-Shi	0.017
6	535	Aichi	Chita-Shi	0.016
6	536	Fukuoka	Koga-Shi	0.015
6	537	Shiga	Koka-Shi	0.015
6	538	Kagoshima	So-Shi	0.015
6	539	Tottori	Kurayoshi-Shi	0.014
6	540	Tokyo	Arakawa-Ku	0.014

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	541	Hyogo	Inami-Cho Kako-Gun	0.014
6	542	Aichi	Chiryu-Shi	0.013
6	543	Fukuoka	Moji-Ku Kitakyushu-Shi	0.013
6	544	Hyogo	Kakogawa-Shi	0.012
6	545	Oita	Oita-Shi	0.012
6	546	Akita	Yurihonjo-Shi	0.012
6	547	Niigata	Minamiuonuma-Shi	0.012
6	548	Kanagawa	Yokosuka-Shi	0.011
6	549	Hiroshima	Higashihiroshima-Shi	0.011
6	550	Tochigi	Sakura-Shi	0.010
6	551	Miyazaki	Miyakonojo-Shi	0.009
6	552	Gifu	Ikeda-Cho Ibi-Gun	0.009
6	553	Ibaraki	Omitama-Shi	0.009
6	554	Shizuoka	Shizuoka	0.008
6	555	Kagawa	Zentsuji-Shi	0.007
6	556	Aichi	Atsuta-Ku Nagoya-Shi	0.007
6	557	Nagasaki	Shimabara-Shi	0.006
6	558	Fukuoka	Shingu-Machi Kasuya-Gun	0.005
6	559	Miyagi	Ishinomaki-Shi	0.005
6	560	Aichi	Midori-Ku Nagoya-Shi	0.003
6	561	Fukuoka	Minami-Ku Fukuoka-Shi	0.003
6	562	Ibaraki	Shimotsuma-Shi	0.001
6	563	Iwate	Oshu-Shi	0.001
6	564	Chiba	Yachimata-Shi	0.001
6	565	Niigata	Niigata	0.000
6	566	Tokyo	Komae-Shi	0.000
6	567	Wakayama	Wakayama-Shi	-0.001
6	568	Ehime	Masaki-Cho Iyo-Gun	-0.003
6	569	Kumamoto	Kikuchi-Shi	-0.003
6	570	Tokyo	Nishitokyo-Shi	-0.004
6	571	Ishikawa	Noto-Cho Hosu-Gun	-0.004
6	572	Kagoshima	Satsumasendai-Shi	-0.004
6	573	Hokkaido	Shiroishi-Ku Sapporo-Shi	-0.005
6	574	Aomori	Oirase-Cho Kamikita-Gun	-0.006
6	575	Kagawa	Kanonji-Shi	-0.006
6	576	Osaka	Higashiosaka-Shi	-0.006
6	577	Ishikawa	Kaga-Shi	-0.007
6	578	Gifu	Ogaki-Shi	-0.008
6	579	Fukushima	Kitakata-Shi	-0.008
6	580	Osaka	Kita-Ku Osaka-Shi	-0.008
6	581	Tokyo	Fuchu-Shi	-0.008
6	582	Niigata	Sanjo-Shi	-0.008
6	583	Fukuoka	Higashi-Ku Fukuoka-Shi	-0.009
6	584	Tokyo	Adachi-Ku	-0.009
6	585	Miyagi	Iwanuma-Shi	-0.010
6	586	Kagoshima	Akune-Shi	-0.010
6	587	Kagoshima	Shibushi-Shi	-0.010
6	588	Fukuoka	Tagawa-Shi	-0.010
6	589	Ibaraki	Mito-Shi	-0.011
6	590	Nagano	Azumino-Shi	-0.011
6	591	Ehime	Saijo-Shi	-0.011
6	592	Kumamoto	Koshi-Shi	-0.012

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	593	Shiga	Otsu-Shi	-0.012
6	594	Chiba	Tateyama-Shi	-0.012
6	595	Ibaraki	Ryugasaki-Shi	-0.012
6	596	Tokyo	Edogawa-Ku	-0.012
6	597	Iwate	Tono-Shi	-0.012
6	598	Kanagawa	Tsurumi-Ku Yokohama-Shi	-0.013
6	599	Kyoto	Kamigyo-Ku Kyoto-Shi	-0.013
6	600	Yamagata	Shirataka-Machi Nishiokitama-Gun	-0.013
6	601	Kagawa	Utazu-Cho Ayauta-Gun	-0.014
6	602	Akita	Yokote-Shi	-0.014
6	603	Hokkaido	Ebetsu-Shi	-0.014
6	604	Ibaraki	Yuki-Shi	-0.015
6	605	Iwate	Ofunato-Shi	-0.017
6	606	Oita	Hita-Shi	-0.017
6	607	Shizuoka	Yaizu-Shi	-0.017
6	608	Ishikawa	Suzu-Shi	-0.017
6	609	Yamagata	Yamagata-Shi	-0.017
6	610	Osaka	Naniwa-Ku Osaka-Shi	-0.018
6	611	Hokkaido	Chitose-Shi	-0.019
6	612	Hokkaido	Kitahiroshima-Shi	-0.019
6	613	Kagoshima	Ichikikushikino-Shi	-0.020
6	614	Hiroshima	Asakita-Ku Hiroshima-Shi	-0.023
6	615	Hokkaido	Kushiro-Shi	-0.023
6	616	Miyagi	Sendai	-0.023
6	617	Fukui	Ono-Shi	-0.023
6	618	Miyagi	Tagajo-Shi	-0.023
6	619	Nara	Gojo-Shi	-0.024
6	620	Osaka	Nishi-Ku Osaka-Shi	-0.024
6	621	Osaka	Settsu-Shi	-0.024
6	622	Miyazaki	Hyuga-Shi	-0.025
6	623	Shiga	Konan-Shi	-0.026
6	624	Chiba	Sodegaura-Shi	-0.027
6	625	Saitama	Kamikawa-Machi Kodama-Gun	-0.027
6	626	Saitama	Yashio-Shi	-0.027
6	627	Hokkaido	Otofuke-Cho Kato-Gun	-0.028
6	628	Gifu	Kakamigahara-Shi	-0.028
6	629	Saga	Ogi-Shi	-0.028
6	630	Yamagata	Sakata-Shi	-0.030
6	631	Kagoshima	Osaki-Cho So-Gun	-0.030
6	632	Tokyo	Setagaya-Ku	-0.032
6	633	Tokyo	Shibuya-Ku	-0.032
6	634	Toyama	Oyabe-Shi	-0.032
6	635	Hyogo	Minamiawaji-Shi	-0.033
6	636	Hiroshima	Akitakata-Shi	-0.033
6	637	Osaka	Fukushima-Ku Osaka-Shi	-0.034
6	638	Aichi	Nagakute-Cho Aichi-Gun	-0.034
6	639	Toyama	Kamiichi-Machi Nakaniikawa-Gun	-0.034
6	640	Ibaraki	Moriya-Shi	-0.035
6	641	Hiroshima	Hatsukaichi-Shi	-0.035
6	642	Miyazaki	Nobeoka-Shi	-0.036
6	643	Saitama	Hidaka-Shi	-0.038
6	644	Fukushima	Soma-Shi	-0.038

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6	645	Aomori	Hachinohe-Shi	-0.039
6	646	Nagasaki	Hirado-Shi	-0.039
6	647	Gifu	Motosu-Shi	-0.039
6	648	Kagoshima	Kanoya-Shi	-0.040
6	649	Hokkaido	Shiraoi-Cho Shiraoi-Gun	-0.040
6	650	Kyoto	Kameoka-Shi	-0.040
6	651	Kumamoto	Kumamoto-Shi	-0.040
6	652	Saga	Taku-Shi	-0.040
6	653	Fukuoka	Chikuzen-Machi Asakura-Gun	-0.041
6	654	Fukuoka	Tobata-Ku Kitakyushu-Shi	-0.041
6	655	Fukui	Sakai-Shi	-0.044
6	656	Osaka	Izumisano-Shi	-0.046
6	657	Ibaraki	Ushiku-Shi	-0.046
6	658	Yamaguchi	Iwakuni-Shi	-0.047
6	659	Kagoshima	Kirishima-Shi	-0.048
6	660	Yamagata	Nanyo-Shi	-0.048
6	661	Kagawa	Ayagawa-Cho Ayauta-Gun	-0.049
6	662	Hokkaido	Wakkanai-Shi	-0.050
6	663	Chiba	Ichihara-Shi	-0.050
6	664	Iwate	Ninohe-Shi	-0.050
6	665	Osaka	Tennoji-Ku Osaka-Shi	-0.051
6	666	Yamanashi	Kofu-Shi	-0.051
6	667	Aichi	Nakagawa-Ku Nagoya-Shi	-0.053
6	668	Niigata	Seiro-Machi Kitakambara-Gun	-0.054
6	669	Ishikawa	Nakanoto-Machi Kashima-Gun	-0.055
6	670	Osaka	Chuo-Ku Osaka-Shi	-0.055
6	671	Fukuoka	Miyama-Shi	-0.056
6	672	Saga	Saga-Shi	-0.057
6	673	Osaka	Ikuno-Ku Osaka-Shi	-0.057
6	674	Osaka	Kashiwara-Shi	-0.058
6	675	Ishikawa	Komatsu-Shi	-0.058
6	676	Saitama	Okegawa-Shi	-0.059
6	677	Kagawa	Marugame-Shi	-0.059
6	678	Osaka	Yodogawa-Ku Osaka-Shi	-0.060
6	679	Kanagawa	Naka-Ku Yokohama-Shi	-0.060
6	680	Yamagata	Higashine-Shi	-0.061
6	681	Shimane	Yasugi-Shi	-0.062
6	682	Aichi	Ichinomiya-Shi	-0.063
6	683	Yamaguchi	Yamaguchi-Shi	-0.063
6	684	Kanagawa	Kanazawa-Ku Yokohama-Shi	-0.063
6	685	Iwate	Kuji-Shi	-0.064
6	686	Tokushima	Higashimiyoshi-Cho Miyoshi-Gun	-0.064
6	687	Yamanashi	Minamiarupusu-Shi	-0.064
6	688	Yamanashi	Chuo-Shi	-0.065
6	689	Kyoto	Kyotango-Shi	-0.065
6	690	Aichi	Mizuho-Ku Nagoya-Shi	-0.066
6	691	Okayama	Akaiwa-Shi	-0.068
6	692	Ibaraki	Inashiki-Shi	-0.068
6	693	Hokkaido	Sunagawa-Shi	-0.069
6	694	Kumamoto	Tamana-Shi	-0.069
6	695	Hiroshima	Mihara-Shi	-0.069
6	696	Gifu	Ginan-Cho Hashima-Gun	-0.069

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	697	Aomori	Hirosaki-Shi	-0.069
6	698	Yamaguchi	Hofu-Shi	-0.070
6	699	Akita	Akita-Shi	-0.070
6	700	Kagoshima	Minamikyushu-Shi	-0.070
6	701	Saitama	Fukaya-Shi	-0.071
6	702	Ibaraki	Hitachi-Shi	-0.071
6	703	Yamagata	Murayama-Shi	-0.071
6	704	Hyogo	Himeji-Shi	-0.072
6	705	Osaka	Daito-Shi	-0.072
6	706	Hyogo	Toyoka-Shi	-0.072
6	707	Okayama	Asakuchi-Shi	-0.073
6	708	Yamagata	Yonezawa-Shi	-0.074
6	709	Ibaraki	Kasama-Shi	-0.074
6	710	Aomori	Aomori-Shi	-0.080
6	711	Tokushima	Ishii-Cho Myozai-Gun	-0.080
6	712	Oita	Kunisaki-Shi	-0.080
6	713	Osaka	Moriguchi-Shi	-0.080
6	714	Hiroshima	Kure-Shi	-0.081
6	715	Yamagata	Shinjo-Shi	-0.082
6	716	Miyagi	Natori-Shi	-0.083
6	717	Ibaraki	Ami-Machi Inashiki-Gun	-0.083
6	718	Hiroshima	Asaminami-Ku Hiroshima-Shi	-0.084
6	719	Kagoshima	Hioki-Shi	-0.084
6	720	Aichi	Kita-Ku Nagoya-Shi	-0.084
6	721	Yamanashi	Masuho-cho	-0.088
6	722	Osaka	Higashisumiyoshi-Ku Osaka-Shi	-0.092
6	723	Saitama	Kumagaya-Shi	-0.093
6	724	Iwate	Kitakami-Shi	-0.093
6	725	Chiba	Tako-Machi Katori-Gun	-0.095
6	726	Fukuoka	Hirokawa-Machi Yame-Gun	-0.095
6	727	Miyazaki	Mimata-Cho Kitamorokata-Gun	-0.096
6	728	Aichi	Fuso-Cho Niwa-Gun	-0.096
6	729	Ishikawa	Nomi-Shi	-0.098
6	730	Shiga	Hikone-Shi	-0.104
6	731	Hiroshima	Saeki-Ku Hiroshima-Shi	-0.105
6	732	Nagano	Shiojiri-Shi	-0.106
6	733	Kyoto	Kita-Ku Kyoto-Shi	-0.108
6	734	Kumamoto	Mashiki-Machi Kamimashiki-Gun	-0.109
6	735	Aichi	Tsushima-Shi	-0.109
6	736	Okayama	Soja-Shi	-0.109
6	737	Oita	Nakatsu-Shi	-0.110
6	738	Ibaraki	Ishioka-Shi	-0.110
6	739	Tottori	Yonago-Shi	-0.112
6	740	Saitama	Sakado-Shi	-0.114
6	741	Akita	Daisen-Shi	-0.114
6	742	Kochi	Konan-Shi	-0.115
6	743	Miyazaki	Miyazaki-Shi	-0.115
6	744	Hokkaido	Nemuro-Shi	-0.116
6	745	Hokkaido	Abashiri-Shi	-0.116
6	746	Tottori	Sakaiminato-Shi	-0.116
6	747	Osaka	Izumi-Shi	-0.117
6	748	Shiga	Aisho-Cho Echi-Gun	-0.117

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	749	Fukuoka	Yanagawa-Shi	-0.118
6	750	Fukuoka	Hakata-Ku Fukuoka-Shi	-0.118
6	751	Hyogo	Chuo-Ku Kobe-Shi	-0.118
6	752	Miyagi	Kawasaki-Machi Shibata-Gun	-0.118
6	753	Saga	Imari-Shi	-0.119
6	754	Shizuoka	Fujinomiya-Shi	-0.123
6	755	Fukuoka	Chikugo-Shi	-0.124
6	756	Okinawa	Miyakojima-Shi	-0.124
6	757	Yamagata	Takahata-Machi Higashiokitama-Gun	-0.124
6	758	Iwate	Otsuchi-Cho Kamihei-Gun	-0.125
6	759	Hokkaido	Mombetsu-Shi	-0.125
6	760	Hokkaido	Shiranuka-Cho Shiranuka-Gun	-0.127
6	761	Kagawa	Higashikagawa-Shi	-0.127
6	762	Kagoshima	Ibusuki-Shi	-0.127
6	763	Tottori	Nambu-Cho Saihaku-Gun	-0.128
6	764	Hokkaido	Asahikawa-Shi	-0.131
6	765	Hokkaido	Bihoro-Cho Abashiri-Gun	-0.131
6	766	Fukui	Sabae-Shi	-0.132
6	767	Nagasaki	Omura-Shi	-0.134
6	768	Yamagata	Sagae-Shi	-0.135
6	769	Ishikawa	Nanao-Shi	-0.137
6	770	Hokkaido	Nanae-Cho Kameda-Gun	-0.138
6	771	Fukushima	Nihommatsu-Shi	-0.138
6	772	Saitama	Satte-Shi	-0.138
6	773	Tottori	Kotora-Cho Tohaku-Gun	-0.139
6	774	Aomori	Tsugaru-Shi	-0.140
6	775	Fukushima	Iwaki-Shi	-0.145
6	776	Gifu	Shirakawa-Cho Kamo-Gun	-0.145
6	777	Gifu	Ibigawa-Cho Ibi-Gun	-0.145
6	778	Tottori	Tottori-Shi	-0.148
6	779	Kumamoto	Kikuyo-Machi Kikuchi-Gun	-0.149
6	780	Shiga	Hino-Cho Gamo-Gun	-0.153
6	781	Oita	Saiki-Shi	-0.154
6	782	Kochi	Shimanto-Shi	-0.159
6	783	Aichi	Naka-Ku Nagoya-Shi	-0.163
6	784	Kyoto	Shimogyo-Ku Kyoto-Shi	-0.163
6	785	Aichi	Tempaku-Ku Nagoya-Shi	-0.165
6	786	Wakayama	Iwade-Shi	-0.165
6	787	Akita	Odate-Shi	-0.166
6	788	Tokushima	Matsushige-Cho Itano-Gun	-0.171
6	789	Shizuoka	Arai-cho	-0.174
6	790	Nagano	Chikuma-Shi	-0.176
6	791	Saitama	Ranzan-Machi Hiki-Gun	-0.176
6	792	Saitama	Otone-cho	-0.177
6	793	Hyogo	Kasai-Shi	-0.178
6	794	Ishikawa	Nonoichi-Machi Ishikawa-Gun	-0.178
6	795	Tokushima	Yoshinogawa-Shi	-0.181
6	796	Yamanashi	Hokuto-Shi	-0.182
6	797	Chiba	Yotsukaido-Shi	-0.183
6	798	Yamagata	Yamanobe-Machi Higashimurayama-Gun	-0.186
6	799	Kumamoto	Taragi-Machi Kuma-Gun	-0.186
6	800	Kanagawa	Konan-Ku Yokohama-Shi	-0.189

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	801	Kanagawa	Kamakura-Shi	-0.192
6	802	Kochi	Kuroshio-Cho Hata-Gun	-0.194
6	803	Fukushima	Namie-Machi Futaba-Gun	-0.197
6	804	Ishikawa	Shika-Machi Hakui-Gun	-0.197
6	805	Kochi	Tosa-Shi	-0.198
6	806	Kagawa	Takamatsu-Shi	-0.198
6	807	Saitama	Moroyama-Machi Iruma-Gun	-0.201
6	808	Kumamoto	Jonan-cho	-0.204
6	809	Hokkaido	Minami-Ku Sapporo-Shi	-0.204
6	810	Fukushima	Kawamata-Machi Date-Gun	-0.205
6	811	Aomori	Yokohama-Machi Kamikita-Gun	-0.206
6	812	Miyagi	Kami-Machi Kami-Gun	-0.208
6	813	Tochigi	Nasukarasuyama-Shi	-0.208
6	814	Osaka	Suminoe-Ku Osaka-Shi	-0.210
6	815	Oita	Usuki-Shi	-0.213
6	816	Wakayama	Hidakagawa-Cho Hidaka-Gun	-0.214
6	817	Hokkaido	Mikasa-Shi	-0.214
6	818	Nara	Sakurai-Shi	-0.215
6	819	Kyoto	Ayabe-Shi	-0.216
6	820	Hokkaido	Kita-Ku Sapporo-Shi	-0.216
6	821	Shimane	Hikawa-Cho Hikawa-Gun	-0.218
6	822	Kyoto	Sakyo-Ku Kyoto-Shi	-0.220
6	823	Okayama	Mimasaka-Shi	-0.221
6	824	Yamaguchi	Nagato-Shi	-0.224
6	825	Shimane	Izumo-Shi	-0.231
6	826	Oita	Usa-Shi	-0.232
6	827	Osaka	Sumiyoshi-Ku Osaka-Shi	-0.235
6	828	Shimane	Matsue-Shi	-0.241
6	829	Gumma	Numata-Shi	-0.241
6	830	Kumamoto	Arao-Shi	-0.241
6	831	Kumamoto	Ozu-Machi Kikuchi-Gun	-0.243
6	832	Yamanashi	Koshu-Shi	-0.252
6	833	Shimane	Oda-Shi	-0.256
6	834	Oita	Bungoono-Shi	-0.260
6	835	Kumamoto	Nagomi-Machi Tamana-Gun	-0.261
6	836	Nagano	Chino-Shi	-0.261
6	837	Oita	Yufu-Shi	-0.264
6	838	Osaka	Abeno-Ku Osaka-Shi	-0.266
6	839	Shimane	Hamada-Shi	-0.266
6	840	Miyagi	Tome-Shi	-0.271
6	841	Gifu	Takayama-Shi	-0.273
6	842	Iwate	Rikuzentakata-Shi	-0.275
6	843	Yamaguchi	Hikari-Shi	-0.277
6	844	Miyagi	Watari-Cho Watari-Gun	-0.278
6	845	Saitama	Chichibu-Shi	-0.284
6	846	Yamaguchi	Mine-Shi	-0.285
6	847	Shimane	Unnan-Shi	-0.288
6	848	Niigata	Itoigawa-Shi	-0.298
6	849	Saitama	Kitamoto-Shi	-0.304
6	850	Osaka	Takaishi-Shi	-0.309
6	851	Hokkaido	Rumoi-Shi	-0.309
6	852	Iwate	Sumita-Cho Kesen-Gun	-0.313

Industry	Ranking	State	City/Ward/Town/Village	Location effect
6	853	Yamaguchi	Ube-Shi	-0.316
6	854	Tochigi	Otawara-Shi	-0.335
6	855	Saitama	Namegawa-Machi Hiki-Gun	-0.338
6	856	Aichi	Seto-Shi	-0.351
6	857	Hyogo	Sasayama-Shi	-0.357
6	858	Kyoto	Maizuru-Shi	-0.369
6	859	Nagano	Suzaka-Shi	-0.371
6	860	Gumma	Itakura-Machi Ora-Gun	-0.384
6	861	Shiga	Yasu-Shi	-0.402
6	862	Hyogo	Taka-Cho Taka-Gun	-0.404
6	863	Wakayama	Kinokawa-Shi	-0.414
6	864	Nagano	Komoro-Shi	-0.418
6	865	Aichi	Higashiura-Cho Chita-Gun	-0.427
6	866	Kochi	Kochi-Shi	-0.467
6	867	Ibaraki	Kitaibaraki-Shi	-0.481
6	868	Hokkaido	Shibetsu-Shi	-0.482
6	869	Okinawa	Itoman-Shi	-0.496
6	870	Hyogo	Sayo-Cho Sayo-Gun	-0.498
6	871	Aichi	Mihama-Cho Chita-Gun	-0.506
6	872	Akita	Noshiro-Shi	-0.557
6	873	Nagano	Tomi-Shi	-0.657
6	874	Fukui	Obama-Shi	-0.699
6	875	Yamaguchi	Kudamatsu-Shi	-1.124

※1: Material products, 2: Chemicals, 3: General machinery, 4: Electric machinery, 5: Transportation machinery, and 6: Miscellaneous products.